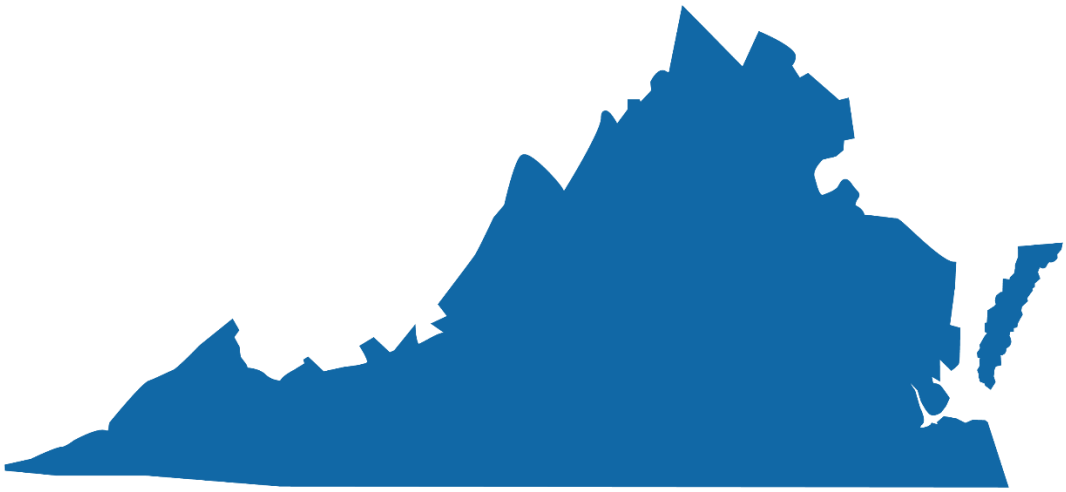
2020 Annual Solid Waste Report for CY2019

Commonwealth of Virginia



June 2020

Table of Contents

EXECUTIVE SUMMARY i

I. Introduction 1
II. Reporting Procedures 1
III. Receipt of Assessment Reports 2
IV. Discussion of Reported Waste Management Activities and Capacity Information 2
V. Reports of Economic Benefits 3
VI. Waste Diversion and Recycling 3

Tables:
Table 1 – Solid Waste Managed in Virginia for All Reporting Facilities in Tons – 2019 4
Table 2 – Jurisdiction of Origin of Waste Received in Tons – 2019 5
Table 3 – Solid Waste Managed by MSW (Sanitary) Landfills in Tons – 2019 6
Table 4 – Capacity and Remaining Life for MSW (Sanitary) Landfills – 2019 7
Table 5 – Solid Waste Managed by CDD Landfills in Tons – 2019 9
Table 6 – Capacity and Remaining Life for CDD Landfills – 2019 10
Table 7 – Solid Waste Managed by Non-Captive Industrial Landfills in Tons – 2019 11
Table 8 – Capacity and Remaining Life for Non-Captive Industrial Landfills – 2019 11
Table 9 – Solid Waste Managed by Waste to Energy Incinerators in Tons – 2019 12
Table 10 – List of Reporting Incinerators – 2019 12
Table 11 – Solid Waste Managed by Transfer Stations in Tons – 2019 13
Table 12 – List of Reporting Transfer Stations – 2019 14
Table 13 – Solid Waste Managed by Material Recovery Facilities (MRFs) in Tons – 2019 16
Table 14 – List of Reporting MRFs – 2019 17
Table 15 – Summary Table of SW Managed by Facility Type in Tons – 2019 19
Table 16 – List of Reporting Compost Facilities – 2019 20
Table 17 – List of Reporting RMW Facilities – 2019 20
Table 18 – Methods of Solid Waste Management (in Tons) – 2019 21
Table 19 – Composition of the Solid Waste Stream in Tons – 2019 21
Table 20 – Tons Recycled or Diverted from Solid Waste Facilities - 2019 22

Figures:
Figure 1 – Total Solid Waste Received from 2011 through 2019 23
Figure 2 – Municipal Solid Waste Received from 2011 through 2019 24

Attachments:
Attachment 1 – SWIA Reporting Table (Form DEQ 50-25) 25

Solid Waste Managed in Virginia
During Calendar Year 2019

EXECUTIVE SUMMARY

Section 10.1-1413.1 of the Code of Virginia requires the Department of Environmental Quality (DEQ) 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 DEQ with information to prepare this report. As of May 6, 2020, 205 permitted facilities provided information on their activities for calendar year 2019 for this report.

Based on the facilities' reports, a total of 22,530,150.85 tons of solid waste was received at Virginia's permitted solid waste management facilities during calendar year 2019. Of this total, 16,745,894.34 tons originated in the Commonwealth and 5,784,256.50 tons originated from other jurisdictions. The total amount of solid waste received increased by 3.32% or 724,725.32 tons compared to 2018.

Municipal solid waste (MSW) constituted 14,266,532.21 tons of the total amount of solid waste received during calendar year 2019. Of the total MSW received, 10,042,401.97 tons originated in the Commonwealth and 4,224,130.24 tons originated from other jurisdictions.

Five jurisdictions accounted for 96.96% of all waste received from out-of-state sources: Maryland (41.20%); Washington, D.C. (16.68%); New York (16.39%); New Jersey (16.25%); and North Carolina (6.44%).

During calendar year 2019, the total solid waste received from out-of-state increased by 13.33%. MSW received from out-of-state increased by 9.64% compared to 2018 amounts. Construction/demolition/debris (CDD) decreased by 15.56% and industrial waste increased by 42.8% compared to 2018 amounts. Total out-of-state solid waste increased due to a 42.8% increase in out-of-state industrial waste from 419,656.62 in 2018 to 599,287.85 tons in 2019. For waste originating in Virginia during the same period, the total solid waste, MSW, and CDD waste received increased by 0.27%, 0.39%, and 3.29% respectively compared to 2018 amounts. Industrial waste decreased by 11.23% compared to 2018.

Of the solid waste managed in Virginia during the year, 73.21% or 13,814,420.75 tons were landfilled onsite, 11.67% or 2,201,817.23 tons were incinerated onsite, and the rest was managed by other means (see Table 18). Of all solid waste received at Virginia facilities during the year, 63.32% was MSW, 19.43% was CDD waste, 6.22% was industrial waste and the remainder was other types of waste (see Table 19).

Permitted solid waste management facilities reported that 7.50% of the waste they managed was diverted from disposal by recycling or mulching; 1.06% of the total waste managed was composted.

Permitted facilities are 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 – 20.6 years; CDD – 21.4 years; and non-captive industrial – 16.9 years. These projections do not account for population increases, changes in waste generation, or the closing of older MSW disposal units pursuant to statute.

At the option of the facility owner, Virginia Code § 10.1-1413.1 provides that the data collected may include an accounting of the facility's economic benefits to the locality where the facility is located. No facilities provided such information for calendar year 2019.

I. Introduction

This report has been prepared in accordance with Virginia Code § 10.1-1413.1, which requires DEQ 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 DEQ with information in their possession as is reasonably necessary for DEQ to prepare this report. The requirements for reporting are set forth in the Virginia Administrative Code, 9 VAC 20-81-80.

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, amount of waste mined [1], 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, DEQ Form 50-25, for providing information to DEQ is provided as Attachment 1.

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 land applied in accordance with Virginia Code 62.1-44.19:3
- tires
- white goods (e.g., refrigerators, washing machines)
- friable asbestos
- petroleum-contaminated soil (PCS)
- other waste

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

- recycled onsite
- composted onsite
- landfilled onsite
- incinerated onsite
- sent offsite to be recycled
- sent offsite to be treated, stored or disposed
- stored onsite at the beginning of the reporting period
- stored onsite at the end of the reporting period
- mulched
- other

[1] Landfill mining is the excavation of previously landfilled materials.

Facilities submit this data online or by paper copy to the appropriate DEQ Regional Office. Facilities may log online at the Virginia Solid Waste Information and Assessment (SWIA) webpage to submit data at https://www.deq.virginia.gov/Programs/LandProtectionRevitalization/SolidHazardousWasteRegulatoryPrograms/SolidWaste/SolidWasteInformationandAssessmentProgram.aspx.
For the facilities that provided information, 4.88% (10 facilities) submitted paper copies and 95.12% (195 facilities) submitted the information online.

This report does not include the waste management activities from captive waste management facilities because they 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 or regulated medical waste facilities. As a result, the reported amounts of industrial waste, regulated medical 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.

III. Receipt of Assessment Reports

By regulation, facilities must submit their reportable data by March 31 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 6, 2020, has been included in this report. For 2019, 205 permitted facilities reported their activities. These facilities submitted 343 separate reporting tables, representing waste received from 25 states and jurisdictions (including Virginia and Washington, D.C.). Last year, 202 facilities reported their activities for 2018.

IV. Discussion of Reported Waste Management Activities and Capacity Information

Table 1 shows how the total solid waste received was managed by all facility types.[2] Table 2 lists the jurisdiction of origin of waste. Tables 3, 5, and 7 show how Municipal Solid Waste Sanitary Landfills, Construction/Demolition/Debris Landfills, and Industrial Landfills managed solid waste.[3]

Tables 9 – 17 show how other facility types (Incinerators, Transfer Stations, Material Recovery Facilities (MRF), Composters, and Regulated Medical Waste) managed the waste they received and a list of submitting facilities. Table 18 shows how the total waste stream was managed and Table 19 shows the composition of the total waste stream.

Permitted facilities that treat, store or dispose of solid waste are required to report the available capacity, expected life and current disposal rates. The remaining capacity and life, and a list of

[2] 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 on Form DEQ 50-25 except “mined materials” or 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 offsite," and not include it as waste that is "received" at that facility.

[3] Some columns and rows found in Table 1 do not appear in some of these tables. Rows and columns that do not have reported data were not used by any of the reporting entities*; i.e.* MSW Landfills do not incinerate waste so the column is not included; MSW landfills do not accept regulated medical waste so the row is not included.

submitting facilities are in Tables 4, 6, and 8. [4] Calculations for remaining years of landfill capacity do not account for population changes, changes in waste generation, or the future closings of older MSW disposal units under Virginia Code § 10.1-1413.2. Also, calculations do not include facilities that have not been built and are not accepting waste for which permits may have been issued.

Figure 1 compares the total amount of waste received from 2011 through 2019 at facilities from Virginia and out-of-state jurisdictions. Figure 2 compares municipal solid waste received from 2011 through 2019 from Virginia and out-of-state sources.

V. Reports of Economic Benefits

At the option of the facility owner, Virginia Code § 10.1-1413.1 provides that 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. No facilities provided such information for 2019.

VI. Waste Diversion and Recycling

SWIA data is collected from solid waste permitted facilities. Facilities submit the total tonnage received and how the amounts were managed (landfilled, mined, recycled onsite, recycled offsite, mulched, incinerated, other, composted, or stored). Permitted solid waste management facilities reported that 7.50% (1,415,854.58 tons) of the total waste they managed was diverted from disposal by recycling or mulching. Facilities composted 1.06% (199,461.85 tons) of the total waste managed. Table 20 shows for each SWIA category of waste the total amount of Virginia and out-of-state waste managed, total amount diverted and how the material was managed. In addition, Tables 3, 5, 7, 9, 11, 13, and 15 show how the various facility types managed the waste types.

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. For more detailed information about recycling rates in Virginia see Calendar Year 2018 Virginia Annual Recycling Rate Report:
http://www.deq.virginia.gov/Programs/LandProtectionRevitalization/RecyclingandLitterPreventionPrograms.aspx. The annual recycling report for calendar year 2019 will be issued later this year.

[4] Facilities report available capacity in cubic yards. The available capacity is estimated using the following conversion factors: 1,000 lbs. of MSW = 1 cu. yd.; 1,200 lbs. of CDD waste = 1 cu. yd.; and 1,000 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.

Table 1 – Solid Waste Managed in Virginia for All Reporting Facilities in Tons – 2019

Waste Type	Total Waste Received[5]	Mined Materials	Landfilled Onsite	Recycled Onsite[6]	Composted Onsite	Incinerated Onsite	Mulched Onsite	Other Onsite[7]	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Municipal Solid Waste	14,266,532.21	166,523	8,746,397.38	855.19	1,189.16	2,186,963	0	144,500.00	114,717.99	3,237,073.80	17,220.09	16,632.60
Construction/Demolition/Debris	4,377,177.57	0	2,668,778.71	263,740.17	0	0	43,491	35,827.36	107,820.13	1,190,221.66	505,074.80	572,373.31
Industrial Waste	1,401,473.14	0	1,260,544.90	0	37,362	14,854	0	22,839.29	2,180.39	63,692.56	0	0
Other Waste	794,587.47	0	345,557.01	14,995.73	750.06	0	60.00	72,612.39	293,733.71	128,655.35	21,069.93	9,651.15
Incineration Ash	606,234.18	0	426,445.32	0	0	0	0	0	175,893.46	459,323.90	0	64,682
Vegetative/Yard Waste	434,827.82	0	9,277.88	3,265	143,021	0	178,737	20,717	32,892	17,517.75	173,252.93	182,910.29
Petroleum Contaminated Soil	250,242.03	0	119,130.01	0	0	0	0	79,349.48	57,497.00	214.54	13,470.00	7,521
Sludge	250,206.91	0	231,752.29	0	17,140	0	0	0	0	1,314.86	0	0
Tires	109,912.42	0	611.18	54,282.93	0	0	0	3,229	44,271.62	6,892.56	2,792.73	3,418.30
White Goods	27,660.45	0	0	591	0	0	0	0	26,831	57.48	202	383
Friable Asbestos	5,936.35	0	5,926.07	0	0	0	0	0	0	11.22	5.44	4.50
Regulated Medical Waste	5,360.31	0	0	0	0	0	0	364	0	4,995.91	3	3
Total for 2019	**22,530,150.85**	**166,522.67**	**13,814,420.75**	**337,729.35**	**199,461.85**	**2,201,817.23**	**222,287.79**	**379,438.01**	**855,837.44**	**5,109,971.58**	**733,090.71**	**857,579.62**
Total for 2018	21,805,425.52	180,040.95	13,084,657.57	619,659.56	185,192.40	2,217,914.23	246,236.21	462,195.05	734,033.87	4,935,868.53	634,483.11	719,743.83

[5] The amount of "Total Waste Received" and "Stored Onsite at Beginning of 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 offsite 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. Vegetative/Yard Waste may be composted to produce a product that is not managed as a waste.

[6] 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. Table 20 provides more information. The annual recycling rate report for calendar year 2019 will be issued later this year.

[7] "Other Onsite" methods of management may include steam sterilization of medical waste, approved use of shredded tires, and thermal treatment of petroleum contaminated soils, among others.

Table 2 – Jurisdiction of Origin of Waste Received in Tons – 2019

State or Territory	CDD	Friable Asbestos	Incineration Ash	Industrial	MSW	Other	PCS	RMW	Sludge	Tires	VW/YW	White Goods	Total Received
AL - Alabama	0	0	0	1,327.01	0	0	0	0	0	0	0	0	1,327.01
CN - Canada	0	0	0	0	23.00	0	0	0	0	0	0	0	23.00
CT – Connecticut	0	0	0	918.74	50,545.14	0	0	0	0	0	0	0	51,463.88
DC - District of Columbia	172,522.09	837.42	0	57,624.29	707,610.21	21,574.73	4,871.92	0	0	2.39	0	0	965,043.05
DE – Delaware	0	141.00	0	14,716.52	12,052.89	4.51	6.00	0	0	0	0	0	26,920.92
GA – Georgia	0	0	0	314.26	210.10	0	0	0	0	0	0	0	524.36
IN – Indiana	0	0	0	0.15	0	0	0	1	0	0	0	0	0.65
MA - Massachusetts	22	0	0	4.47	21,935	0	0	0	0	0	0	0	21,961.84
MD – Maryland	255,257	1,077	197,644	213,540.03	1,514,842.63	120,634	43,399	0	36,447	6	0	0	2,382,846.57
MO – Missouri	0	0	0	138.22	0	0	0	0	0	0	0	0	138.22
MS – Mississippi	0	0	0	269.61	0	0	0	0	0	0	0	0	269.61
NC - North Carolina	1,003	22	0	95,484.35	235,556	40,233	10	128	0	0	0	0	372,435.09
NH - New Hampshire	0	0	0	81.91	0	0	0	0	0	0	0	0	81.91
NJ - New Jersey	24,878	0	0	203,896.42	704,600	9	155.85	0	6,456	0	0	0	939,995.85
NY - New York	960.77	0	0	848.97	946,149.53	2.42	0.42	0	0	0	0	0	947,962.11
OH – Ohio	0	0	0	534.89	0	0	0	0	0	0	0	0	534.89
PA - Pennsylvania	652	283	0	5,586.27	2,824	25,388.65	6	0	0	0	0	0	34,740.00
RI - Rhode Island	0	0	0	0	349.70	0	0	0	0	0	0	0	349.70
SC - South Carolina	0	0	0	1,220	254.00	0	0	0	0	0	0	0	1,473.92
TN – Tennessee	5,752	0	0	2,498.41	22,052.34	1.96	0	0	14	166	192	0	30,676.98
TX – Texas	0	0	0	9.22	0	0	0	0	0	0	0	0	9.22
VT – Vermont	0	0	0	232.19	0	0	0	0	0	0	0	0	232.19
WI – Wisconsin	0	0	0	9.00	0	0	0	0	0	0	0	0	9.00
WV - West Virginia	3.83	0	0	33.00	5,125.38	0	74.00	0.32	0	0	0	0	5,236.53
2019 Total Other States	**461,051.19**	**2,359.86**	**197,644.01**	**599,287.85**	**4,224,130.24**	**207,848.28**	**48,522.43**	**128.44**	**42,917.83**	**174.33**	**192.04**	**0**	**5,784,256.50**
2019 Total Virginia	**3,916,126.38**	**3,576.49**	**408,590.17**	**802,185.29**	**10,042,401.97**	**586,739.18**	**201,719.60**	**5,231.87**	**207,289.08**	**109,738.09**	**434,635.78**	**27,660.45**	**16,745,894.34**
2019 Total All States	**4,377,177.57**	**5,936.35**	**606,234.18**	**1,401,473.14**	**14,266,532.21**	**794,587.47**	**250,242.03**	**5,360.31**	**250,206.91**	**109,912.42**	**434,827.82**	**27,660.45**	**22,530,150.85**
2018 Total Other States	546,002.88	6,160.91	189,024.20	419,656.62	3,852,754.16	3,202.82	45,376.81	1,345.20	39,673.11	70.88	843.07	0	5,104,110.66
2018 Total Virginia	3,791,406.00	3,898.00	408,656.15	903,664.06	10,003,558.29	523,701.53	237,184.25	6,143.66	200,543.90	94,745.82	501,900.09	25,913.12	16,701,314.86
2018 Total All States	4,337,408.88	10,058.91	597,680.35	1,323,320.68	13,856,312.45	526,904.35	282,561.06	7,488.86	240,217.01	94,816.70	502,743.16	25,913.12	21,805,425.52

Table 3 – Solid Waste Managed by MSW (Sanitary) Landfills in Tons – 2019

Waste Type	Total Waste Received	Mined Materials	Landfilled Onsite	Recycled Onsite	Composted Onsite	Mulched Onsite	Other Onsite	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Municipal Solid Waste	8,841,535.32	166,522.67	8,746,397.38	855.19	0.00	0.00	144,500.00	18,938.21	97,367.14	0.00	0.07
Construction/Demolition/Debris	1,184,416.32	0.00	1,116,891.12	6,765.69	0.00	5,008.03	33,853.36	0.00	33,296.18	24,531.53	13,133.47
Industrial Waste	1,056,081.62	0.00	1,033,242.33	0.00	0.00	0.00	22,839.29	0.00	0.00	0.00	0.00
Incineration Ash	426,445.32	0.00	426,445.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Waste	415,579.70	0.00	345,557.01	1,173.73	0.00	0.00	63,295.39	4,751.30	802.27	26.00	26.00
Sludge	248,888.43	0.00	231,748.67	0.00	17,139.76	0.00	0.00	0.00	0.00	0.00	0.00
Petroleum Contaminated Soil	151,582.90	0.00	119,130.01	0.00	0.00	0.00	32,406.48	0.00	46.41	0.00	0.00
Vegetative/Yard Waste	140,322.62	0.00	1,651.38	3,087.55	9,236.75	80,289.77	15,610.29	18,640.70	0.00	13,620.70	25,427.88
Tires	17,666.75	0.00	524.93	128.00	0.00	0.00	3,222.67	7,990.51	5,495.49	1,674.77	1,979.93
White Goods	15,734.24	0.00	0.00	590.53	0.00	0.00	0.00	15,152.51	0.00	59.79	50.99
Friable Asbestos	5,363.46	0.00	5,363.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019 MSW Total	**12,503,616.68**	**166,522.67**	**12,026,951.61**	**12,600.69**	**26,376.51**	**85,297.80**	**315,727.48**	**65,473.23**	**137,007.49**	**39,912.79**	**40,618.34**
2018 MSW Total	11,665,782.79	150,165.95	10,783,080.04	286,650.84	27,043.32	95,264.13	398,840.90	80,879.43	141,843.10	40,683.11	42,912.07

Table 4 – Capacity and Remaining Life for MSW (Sanitary) Landfills – 2019

	Facility Name	Permit	Capacity in Tons as of 12/2019	Landfilled in 2019 Tons	Expected Remaining Permitted Life (Years)	Region
1	Accomack County Northern Landfill	SWP461	991,670.00	39,138.30	40	TRO
2	Amherst County Landfill Permit Number 563	SWP563	1,085,772.50	31,113.20	45.5	BRRO
3	Atlantic Waste Disposal Inc	SWP562	44,755,933.00	1,436,096.15	60	PRO
4	Augusta Regional Landfill	SWP585	4,258,673.00	139,648.85	33.4	VRO
5	Battle Creek Landfill	SWP579	2,647,311.50	54,892.13	57.7	VRO
6	Bedford County - Sanitary Landfill	SWP560	77,135.00	57,893.00	1.1	BRRO
7	Bedford Town - Hylton Site	SWP569	6,000.00	14.63	1	BRRO
8	BFI Old Dominion Landfill	SWP553	7,506,173.00	476,753.90	20	PRO
9	Blue Ridge Resource Authority	SWP075	1,873,868.00	45,043.81	45	VRO
10	Botetourt County Landfill	SWP582	55,908.00	34,750.00	1.5	BRRO
11	Bristol Integrated Solid Waste Management Facility	SWP498	0.00	0.00	1	SWRO
12	Bristol Integrated Solid Waste Management Facility	SWP588	1,976,901	143,795	28	SWRO
13	Brunswick Waste Management Facility LLC	SWP583	9,796,609.50	313,308.19	55	PRO
14	Carroll Grayson Galax Regional Landfill 2	SWP605	1,472,238.00	43,328.81	40.1	SWRO
15	Charles City County Landfill	SWP531	12,313,741.00	753,665.11	34	PRO
16	Corral Farm Waste Management Facility	SWP149	0.00	0.00	0	NRO
17	Corral Farm Waste Management Facility	SWP575	314,791.50	1,459.00	157	NRO
18	Covington City - Peters Mountain Landfill	SWP594	296,275	14,778	10	BRRO
19	Disposal and Recycling Services of Lunenburg	SWP544	1,062,645.50	233,417.94	4.0	PRO
20	Franklin County - Sanitary Landfill	SWP072	0.00	1,846.00	0	BRRO
21	Franklin County - Sanitary Landfill	SWP577	2,388,062.00	51,893.00	45	BRRO
22	Frederick County Landfill	SWP529	6,049,075.50	118,442.90	26	VRO
23	Greensville County Landfill	SWP405	275,581.81	21,651.30	9	PRO
24	Interstate 95 Landfill	SWP103	3,566,047.50	348,811.73	37	NRO
25	King and Queen Sanitary Landfill	SWP554	9,960,634.50	687,965.84	27.4	PRO
26	King George Landfill Incorporated	SWP586	15,903,656.50	1,800,883.67	20	NRO
27	Loudoun County Solid Waste Management Facility	SWP001	10,705,100.00	171,939.25	58	NRO
28	Louisa County Sanitary Landfill	SWP567	358,400	21,250	10	NRO
29	Maplewood Recycling and Waste Disposal	SWP540	16,019,456.00	711,672.91	128	PRO
30	Middle Peninsula Landfill and Recycling Facility	SWP572	13,590,104.00	541,600.81	47	PRO
31	New River Resource Authority Solid Waste Facility	SWP548	738,866.50	80,700.00	4.6	BRRO

32	Nottoway County Sanitary Landfill - Blackstone	SWP304	287,215.50	22,024.00	14.8	PRO
33	Orange County Sanitary Landfill	SWP566	1,680,050.50	33,572.00	32	NRO
34	Pittsylvania Co - Sanitary Landfill	SWP571	73,299.12	41,213.40	17	BRRO
35	Prince Edward County Sanitary Landfill	SWP584	150,850.00	30,093.00	5.5	PRO
36	Prince William County Sanitary Landfill	SWP029	4,870,926.00	378,104.00	12.6	NRO
37	Rappahannock Regional Solid Waste Management Board	SWP589	5,717,526.50	226,669.00	37	NRO
38	Region 2000 Regional Landfill - Livestock Rd Fac	SWP610	1,344,052.00	193,111.42	10.5	BRRO
39	Rockingham County Landfill	SWP062	4,327,623.50	145,957.73	42.7	VRO
40	Shenandoah County Landfill - Edinburg	SWP469	1,788,566.00	46,872.00	31.3	VRO
41	Shoosmith Sanitary Landfill	SWP587	19,550,000.00	978,167.00	29	PRO
42	Smith Gap Regional Landfill	SWP555	4,884,960.00	224,588.21	34	BRRO
43	Spotsylvania County Livingston Sanitary Landfill	SWP547	369,290.50	141,610.41	3.4	NRO
44	SPSA - Regional Landfill	SWP417	6,004,032.50	225,427.26	22	TRO
45	SRPSA - Butcher Creek Sanitary Landfill	SWP598	2,282,822.00	74,542.00	63	PRO
46	Tazewell County Landfill	SWP564	234,514.00	60,932.07	5.5	SWRO
47	Tri City Regional Disposal and Recycling Services	SWP228	0.00	0.00	0	PRO
48	USA Waste of Virginia Landfills - Bethel	SWP580	22,204,918.00	766,299.61	74	TRO
49	Virginia Beach City - Landfill No 2	SWP398	1,787,500.00	17,051.00	73	TRO
50	Wise County Sanitary Landfill	SWP513	725,427.50	42,964.14	20	SWRO
	MSW Landfill Total for 2019		**248,330,202.92**	**12,026,951.61**	**20.6**	
	MSW Landfill Total for 2018		252,161,609.03	10,783,080.04	23.4	

Table 5 – Solid Waste Managed by CDD Landfills in Tons – 2019

Waste Type	Total Waste Received	Mined Materials	Landfilled Onsite	Recycled Onsite	Mulched Onsite	Other Onsite	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Construction/Demolition/Debris	1,679,797.30	0.00	1,525,152.68	65,534.00	11,528.00	0.00	26,568.80	256.54	262,555.26	313,312.54
Vegetative/Yard Waste	17,384.25	0.00	7,626.50	177.25	9,385.00	0.00	0.00	0.00	103.75	299.25
Other Waste	12,000.00	0.00	0.00	13,822.00	0.00	0.00	2,500.00	2,500.00	13,648.00	6,826.00
Tires	131.26	0.00	86.25	0.00	0.00	0.00	45.01	0.00	3.00	3.00
Industrial Waste	58.22	0.00	58.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2019 CDD Total	**1,709,371.03**	**0.00**	**1,532,923.65**	**79,533.25**	**20,913.00**	**0.00**	**29,113.81**	**2,756.54**	**276,310.01**	**320,440.79**
2018 CDD Total	2,089,307.00	29,875.00	1,981,593.80	96,656.25	18,946.25	6,499.34	36,811.76	1,062.02	296,850.18	273,810.01

Table 6 – Capacity and Remaining Life for CDD Landfills – 2019

	Facility Name	Permit	Capacity in Tons as of 12/2019	Landfilled in 2019 Tons	Expected Remaining Permitted Life (Years)	Region
1	623 Landfill	SWP506	9,940,287.97	666,674.98	17.4	PRO
2	Ashcake Road Landfill, Inc.	SWP574	627,000.00	72,000.00	8	PRO
3	Centerville Turnpike CDD Landfill	SWP603	3,436,908.28	294,444.22	11.6	TRO
4	Country South LLC - CDD Landfill	SWP581	1,393,051.03	6,010.50	240.5	BRRO
5	Frederick County Landfill	SWP591	2,105,197.20	52,706.39	29	VRO
6	Lorton Construction Landfill	SWP331	0.00	0.00	0	NRO
7	Portsmouth City - Craney Island Landfill	SWP041	1,155,866	3,202	142	TRO
8	Potomac CDD Landfill	SWP441	655,719.60	123,476.39	12	NRO
9	Rainwater Landfill	SWP327	242,618.40	16,762.00	10	NRO
10	Recycled Properties LLC	SWP493	1,335,000.00	41,977.30	10	TRO
11	Skinquarter Land CDD Landfill	SWP604	4,597,473.00	63,096.61	21	PRO
12	Taylor Road Landfill	SWP270	7,265,662.20	141,032.00	58	PRO
13	The East End Landfill	SWP524	0.00	51,541.26	3	PRO
14	Thomas Brothers Debris Landfill	SWP445	68,400.00	0.00	0	BRRO
	CDD Landfill Total for 2019		**32,823,184.09**	**1,532,923.65**	**21.4**	
	CDD Landfill Total for 2018		30,704,906.23	1,981,593.80	15.5	

Table 7 – Solid Waste Managed by Non-Captive Industrial Landfills in Tons – 2019

Waste Type	Total Waste Received	Landfilled Onsite	Recycled Onsite	Mulched Onsite	Recycled Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Industrial Waste	227,244.35	227,244.35	0.00	0.00	0.00	0.00	0.00
Construction/Demolition/Debris	28,156.75	26,734.91	29.48	0.00	461.75	5,020.35	5,950.96
Vegetative/Yard Waste	4,115.31	0.00	0.00	4,115.31	0.00	0.00	0.00
Friable Asbestos	562.61	562.61	0.00	0.00	0.00	0.00	0.00
Tires	78.91	0.00	0.00	0.00	78.91	82.00	82.00
Sludge	3.62	3.62	0.00	0.00	0.00	0.00	0.00
2019 Industrial Total	**260,161.55**	**254,545.49**	**29.48**	**4,115.31**	**540.66**	**5,102.35**	**6,032.96**
2018 Industrial Total	326,527.18	319,983.73	101.04	5,554.16	577.53	4,791.63	5,102.35

Table 8 – Capacity and Remaining Life for Non-Captive Industrial Landfills – 2019

	Facility Name	Permit	Capacity in Tons as of 12/2019	Landfilled in 2019 Tons	Expected Remaining Permitted Life (Years)	Region
1	First Piedmont Corp - Ringgold	SWP065	1,796,513.97	197,330.66	11.8	BRRO
2	International Paper LF No 2 - Isle of Wight	SWP504	1,685,785.00	33,056.50	66	TRO
3	John C Holland Enterprises Inc	SWP280	814,619.39	24,158.33	41	TRO
	Industrial Landfill Total for 2019		**4,296,918.36**	**254,545.49**	**16.9**	
	Industrial Landfill Total for 2018		4,502,529.40	319,983.73	14.1	

Table 9 – Solid Waste Managed by Waste to Energy Incinerators in Tons – 2019

Waste Type	Total Waste Received	Incinerated Onsite	Other Onsite	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Municipal Solid Waste	2,256,953.71	2,186,963.23	0.00	12,167.00	58,570.64	15,396.00	14,429.00
Industrial Waste	14,854.00	14,854.00	0.00	0.00	0.00	0.00	0.00
White Goods	676.00	0.00	0.00	676.00	0.00	0.00	0.00
Tires	339.50	0.00	0.00	339.50	0.00	0.00	0.00
Incineration Ash	0.00	0.00	0.00	60,786.60	459,323.90	0.00	0.00
Other Waste	0.00	0.00	0.00	50,504.00	0.00	0.00	0.00
2019 Incinerator Total	**2,272,823.21**	**2,201,817.23**	**0.00**	**124,473.10**	**517,894.54**	**15,396.00**	**14,429.00**
2018 Incinerator Total	2,279,719.69	2,217,914.23	5.33	64,256.40	578,537.09	6,665.00	15,396.00

Table 10 – List of Reporting Incinerators – 2019

	Permit	Facility Name	Region
1	PBR173	US Central Intelligence Agency - George Bush Cntr	NRO
2	PBR197	US Department of Defense - Pentagon	NRO
3	PBR500	Wheelabrator Portsmouth Inc - Waste to Energy Fac	TRO
4	PBR545	Covanta Fairfax Incorporated	NRO
5	PBR551	Covanta Alexandria Arlington Incorporated	NRO
6	SWP297	Hampton City - NASA Steam Plant	TRO

Table 11 – Solid Waste Managed by Transfer Stations in Tons – 2019

Waste Type	Total Waste Received	Composted Onsite	Mulched Onsite	Other Onsite	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Municipal Solid Waste	2,555,556.79	10.00	0.00	0.00	12,088.24	2,541,752.95	186.73	166.55
Construction/Demolition/Debris	229,773.99	0.00	100.00	0.00	258.00	229,415.99	0.00	0.00
Vegetative/Yard Waste	70,068.76	0.00	57,357.14	2,106.24	14,215.88	889.39	9,370.16	4,870.27
Other Waste	56,200.42	0.00	60.00	9,317.00	31,451.02	15,212.72	162.28	321.96
Industrial Waste	44,980.81	0.00	0.00	0.00	65.00	44,915.81	0.00	0.00
White Goods	10,464.27	0.00	0.00	0.00	10,216.32	57.48	142.00	332.47
Tires	4,343.24	0.00	0.00	0.00	3,582.08	755.08	1.87	7.95
Sludge	1,307.91	0.00	0.00	0.00	0.00	1,307.91	0.00	0.00
Friable Asbestos	10.28	0.00	0.00	0.00	0.00	11.22	5.44	4.50
2019 TS Total	**2,972,706.46**	**10.00**	**57,517.14**	**11,423.24**	**71,876.54**	**2,834,318.55**	**9,868.48**	**5,703.70**
2018 TS Total	2,907,473.97	10.00	73,374.91	8,531.88	62,297.60	2,757,969.92	4,458.80	9,819.54

Table 12 – List of Reporting Transfer Stations – 2019

	Permit	Facility Name	Region
1	PBR001	Russell County Solid Waste Transfer Station	SWRO
2	PBR002	Cedar Bluff Transfer Station	SWRO
3	PBR003	Washington County Solid Waste Landfill	SWRO
4	PBR004	Boissevain Transfer Station	SWRO
5	PBR021	James City County Transfer Station	TRO
6	PBR022	York County Transfer Station	TRO
7	PBR031	Bedford County - Transfer Station	BRRO
8	PBR032	Patrick Co - Solid Waste Transfer Station	BRRO
9	PBR033	Warren County - Transfer Station	VRO
10	PBR041	Smyth County Transfer Station	SWRO
11	PBR044	Wythe/Bland Solid Waste Transfer Station	SWRO
12	PBR045	Bath County of - Transfer Station	VRO
13	PBR049	Dickenson County Transfer Station	SWRO
14	PBR050	Floyd County - Transfer Station	BRRO
15	PBR051	Nelson County Transfer Station & Landfills	VRO
16	PBR069	Westmoreland County of - Montross Transfer Station	PRO
17	PBR070	Lee County Solid Waste Transfer Station	SWRO
18	PBR090	Accomack County - Southern Landfill	TRO
19	PBR091	Waste Management of Virginia - Manassas	NRO
20	PBR103	Alleghany County - Transfer Station	BRRO
21	PBR106	Buchanan County Transfer Station	SWRO
22	PBR112	Accomack County Northern Landfill	TRO
23	PBR121	Bristol Integrated Solid Waste Management Facility	SWRO
24	PBR132	Ivy Materials Utilization Center	VRO
25	PBR136	LCM Corp - Transfer Station	BRRO
26	PBR140	Laurel Valley Center- Culpeper County	NRO
27	PBR149	Montgomery Regional Solid Waste Authority	BRRO
28	PBR154	Madison County Landfill and Transfer Station	NRO
29	PBR160	Richmond Transfer Station and Convenience Center	PRO
30	PBR189	Hanover County - 301 Solid Waste Facility	PRO
31	PBR190	SPSA - Oceana Transfer Station	TRO
32	PBR191	SPSA - Landstown Transfer	TRO
33	PBR192	SPSA - Franklin Transfer Station	TRO

34	PBR193	SPSA - Isle Of Wight Transfer Station	TRO
35	PBR194	SPSA - Chesapeake Transfer	TRO
36	PBR195	SPSA - Norfolk Transfer Station	TRO
37	PBR196	First Piedmont Corp - Ringgold	BRRO
38	PBR501	Salem Transfer Station	BRRO
39	PBR508	Craig County - Transfer Station	BRRO
40	PBR509	Greene County Transfer Station	VRO
41	PBR513	City of Harrisonburg - SW Management Facility	VRO
42	PBR518	SPSA - Regional Landfill	TRO
43	PBR520	First Piedmont Corp - Martinsville TS	BRRO
44	PBR524	Wise County Blackwood Transfer Station	SWRO
45	PBR529	Bedford Town - Hylton Site	BRRO
46	PBR539	Halifax County Transfer Station Facility	BRRO
47	PBR540	Northampton County - Transfer Station	TRO
48	PBR548	Scott County Transfer Station	SWRO
49	PBR555	Interstate 66 - Solid Waste Management Facility	NRO
50	PBR561	Troy Transfer	VRO
51	PBR591	Henrico County DPU Springfield Rd Waste Management	PRO
52	PBR625	Corral Farm Waste Management Facility	NRO
53	PBR628	City of Harrisonburg SW Mgmt Facility - Berry Road	VRO
54	PBR630	County Waste - Hanover	PRO
55	SWP484	SPSA - Boykins Transfer	TRO
56	SWP539	SPSA - Ivor Transfer Station	TRO
57	SWP546	Roanoke Valley Resource Authority Transfer Station	BRRO

Table 13 – Solid Waste Managed by Material Recovery Facilities (MRFs) in Tons – 2019

Waste Type	Total Waste Received	Recycled Onsite	Mulched Onsite	Other Onsite	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
Construction/Demolition/Debris	1,236,893.03	128,342.00	26,855.00	1,974.00	80,531.58	958,220.77	188,482.66	229,452.34
Municipal Solid Waste	744,739.51	0.00	0.00	0.00	71,524.54	672,815.35	1,637.36	2,036.98
Other Waste	319,049.44	0.00	0.00	0.00	214,859.81	108,800.08	7,233.65	2,477.19
Incineration Ash	179,788.86	0.00	0.00	0.00	115,106.86	0.00	0.00	64,682.00
Petroleum Contaminated Soil	98,659.13	0.00	0.00	46,943.00	57,497.00	168.13	13,470.00	7,521.00
Tires	87,352.76	54,154.93	0.00	5.89	32,235.61	641.99	1,031.09	1,345.43
Industrial Waste	20,892.14	0.00	0.00	0.00	2,115.39	18,776.75	0.00	0.00
Vegetative/Yard Waste	4,072.02	0.00	2,807.79	500.00	35.80	10.43	4,153.74	4,871.74
White Goods	785.94	0.00	0.00	0.00	785.94	0.00	0.00	0.00
Sludge	6.95	0.00	0.00	0.00	0.00	6.95	0.00	0.00
2019 MRF Total	**2,692,239.78**	**182,496.93**	**29,662.79**	**49,422.89**	**574,692.53**	**1,759,440.45**	**216,008.50**	**312,386.68**
2018 MRF Total	2,364,991.43	189,903.44	23,153.64	41,940.00	498,062.32	1,596,871.59	190,624.94	202,213.40

Table 14 – List of Reporting MRFs – 2019

	Permit	Facility Name	Region
1	PBR006	Leesburg Transfer Station	NRO
2	PBR039	Virginia Recycling Corporation	PRO
3	PBR052	Aqua Clean Environmental of Virginia	PRO
4	PBR072	SPSA - Regional Landfill	TRO
5	PBR077	Waste Industries LLC	TRO
6	PBR093	Waste Management of Virginia - Sterling	NRO
7	PBR099	BFI Fluvanna Transcyclery	VRO
8	PBR101	Potomac Landfill Incorporated CDD MRF	NRO
9	PBR102	Dulles Materials Recovery Facility	NRO
10	PBR104	Blue Ridge Disposal Inc	BRRO
11	PBR105	BFI Waste Services LLC	BRRO
12	PBR107	Republic Services of Fredericksburg	NRO
13	PBR111	Waste Management of Virginia - Merrifield	NRO
14	PBR116	Bristol Integrated Solid Waste Management Facility	SWRO
15	PBR135	US Navy - Norfolk Naval Shipyard	TRO
16	PBR155	Clearfield MMG Inc - Suffolk	TRO
17	PBR180	MXI Environmental Services LLC	SWRO
18	PBR516	County Waste, LLC	PRO
19	PBR521	CFP Limited Liability Corporation	NRO
20	PBR522	United Disposal Incorporated	TRO
21	PBR528	Corral Farm Waste Management Facility	NRO
22	PBR531	Van Der Linde Recycling	VRO
23	PBR533	Spivey Disposal LLC	TRO
24	PBR536	Broad Run Recycling	NRO
25	PBR537	J and E Recycling Materials Recovery Facility	NRO
26	PBR544	AMRF Incorporated	NRO
27	PBR546	S. B. Cox Recycling Center MRF	PRO
28	PBR547	Emanuel Tire of Virginia	BRRO
29	PBR549	Green Earth Materials Recovery Facility	VRO
30	PBR556	Green Zone Investments LLC	PRO
31	PBR558	Recycling and Disposal Solutions of Virginia (RDS)	TRO
32	PBR559	Montgomery Regional Solid Waste Authority	BRRO
33	PBR563	W and N Material Recovery Facility	NRO

34	PBR565	The CFS Grp BlueRidge Dspsl and Recycling Svcs LLC	BRRO
35	PBR567	B&H Sales Corp	TRO
36	PBR568	TFC Recycling - Chesapeake	TRO
37	PBR571	County Waste MRF	PRO
38	PBR572	S. B. Cox Yorktown Recycling Center	TRO
39	PBR588	Bay Disposal LLC - Hampton	TRO
40	PBR590	Tri City Regional Disposal and Recycling Services	PRO
41	PBR592	Fiberight Limited Liability Company	PRO
42	PBR594	Recycling and Disposal Solutions of VA - Enon Road	BRRO
43	PBR596	Military Highway Recycling Center MRF	TRO
44	PBR598	Bay Disposal LLC - Norfolk	TRO
45	PBR599	623 Landfill	PRO
46	PBR602	Recycling and Disposal Solutions of VA - Korte St	BRRO
47	PBR603	Emanuel Tire Waverly	PRO
48	PBR619	Select Recycling Waste Services Inc	TRO
49	PBR620	Bay Disposal LLC - Smithfield	TRO
50	PBR622	Clearfield MMG Inc - Chesapeake	TRO
51	PBR623	TFC Recycling - Chester Facility	PRO
52	PBR627	Daniel H Barrett Inc	NRO
53	PBR631	BFI Old Dominion Landfill	PRO
54	PBR633	Leventura Group	SWRO

Table 15 – Summary Table of Solid Waste Managed by Facility Type in Tons – 2019

Facility Type	Total Waste Received	Mined Materials	Landfilled Onsite	Recycled Onsite	Composted Onsite	Incinerated Onsite	Mulched Onsite	Other Onsite	Recycled Offsite	Treated, Stored, Disposed Offsite	Stored Onsite at Beginning of Year	Stored Onsite at End of Year
MSW Landfill Total	12,503,616.68	166,522.67	12,026,951.61	12,600.69	26,376.51	0.00	85,297.80	315,727.48	65,473.23	137,007.49	39,912.79	40,618.34
Transfer Station Total	2,972,706.46	0.00	0.00	0.00	10.00	0.00	57,517.14	11,423.24	71,876.54	2,834,318.55	9,868.48	5,703.70
Material Recovery Facility Total	2,692,239.78	0.00	0.00	182,496.93	0.00	0.00	29,662.79	49,422.89	574,692.53	1,759,440.45	216,008.50	312,386.68
Waste to Energy Incinerator Total	2,272,823.21	0.00	0.00	0.00	0.00	2,201,817.23	0.00	0.00	124,473.10	517,894.54	15,396.00	14,429.00
CDD Landfill Total	1,709,371.03	0.00	1,532,923.65	79,533.25	0.00	0.00	20,913.00	0.00	29,113.81	2,756.54	276,310.01	320,440.79
Non-Captive Industrial Landfill Total	260,161.55	0.00	254,545.49	29.48	0.00	0.00	4,115.31	0.00	540.66	0.00	5,102.35	6,032.96
Compost Facility Total	287,282.81	0.00	0.00	63,069.00	173,075.34	0.00	24,781.75	2,500.00	0.00	16,636.65	170,489.58	157,965.15
RMW Facility Total	6,700.58	0.00	0.00	0.00	0.00	0.00	0.00	364.40	0.00	6,336.18	3.00	3.00
2019 All Facilities Total	**22,530,150.85**	**166,522.67**	**13,814,420.75**	**337,729.35**	**199,461.85**	**2,201,817.23**	**222,287.79**	**379,438.01**	**855,837.44**	**5,109,971.58**	**733,090.71**	**857,579.62**

Table 16 – List of Reporting Compost Facilities – 2019

	Permit	Facility Name	Region
1	PBR010	Danville City of - Yard Waste Composting Facility	BRRO
2	PBR013	VPPSA -Compost Facility	TRO
3	PBR030	Prince William County - Balls Ford Yard Waste	NRO
4	PBR096	Newport News City - Yard Waste Compost Fac No 1	TRO
5	PBR125	Middle Peninsula Landfill and Recycling Facility	PRO
6	PBR141	Loudoun Composting	NRO
7	PBR175	DOC Powhatan Correctional Center	PRO
8	PBR181	Watkins Nurseries Incorporated	PRO
9	PBR512	Hanover County - 301 Solid Waste Facility	PRO
10	PBR525	Bristol Integrated Solid Waste Management Facility	SWRO
11	PBR589	Black Bear Composting	VRO
12	PBR597	Commonwealth Compost and Recycling Services Inc	SWRO
13	PBR616	Commonwealth Recycled Aggregates Inc	NRO
14	PBR632	Panorama Paydirt	VRO
15	SWP601	Royal Oak Farm Solid Waste Composting Facility	BRRO

Table 17 – List of Reporting RMW Facilities – 2019

	Permit	Facility Name	Region
1	PBR143	Curtis Bay Medical Waste Services VA LLC - Roanoke	BRRO
2	PBR517	Stericycle Chesterfield RMW Transfer Station	PRO
3	PBR606	Daniels Sharpsmart RMW Transfer Station	PRO
4	PBR617	Curtis Bay Medical Waste Services Virginia LLC	PRO
5	PBR624	Agape Pet Services of Virginia LLC	PRO

Table 18 – Methods of Solid Waste Management (in Tons) – 2019

Methods of Solid Waste Management	2019 Tons	Percentage
Landfilled Onsite	13,814,420.75	73.21%
Incinerated Onsite	2,201,817.23	11.67%
Stored Onsite End of Year	857,579.62	4.55%
Sent Offsite to be Recycled	855,837.44	4.54%
Other	379,438.01	2.01%
Recycled Onsite	337,729.35	1.79%
Mulched	222,287.79	1.18%
Composted Onsite	199,461.85	1.06%
Total	**18,868,572.04**	**100.00%**

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 onsite at the beginning of the year (which is similar to waste received) and (2) waste that was sent offsite 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 18,868,572.04 tons. Facilities that mine landfill materials report how much material was mined and how it was managed.

Table 19 – Composition of the Solid Waste Stream in Tons – 2019

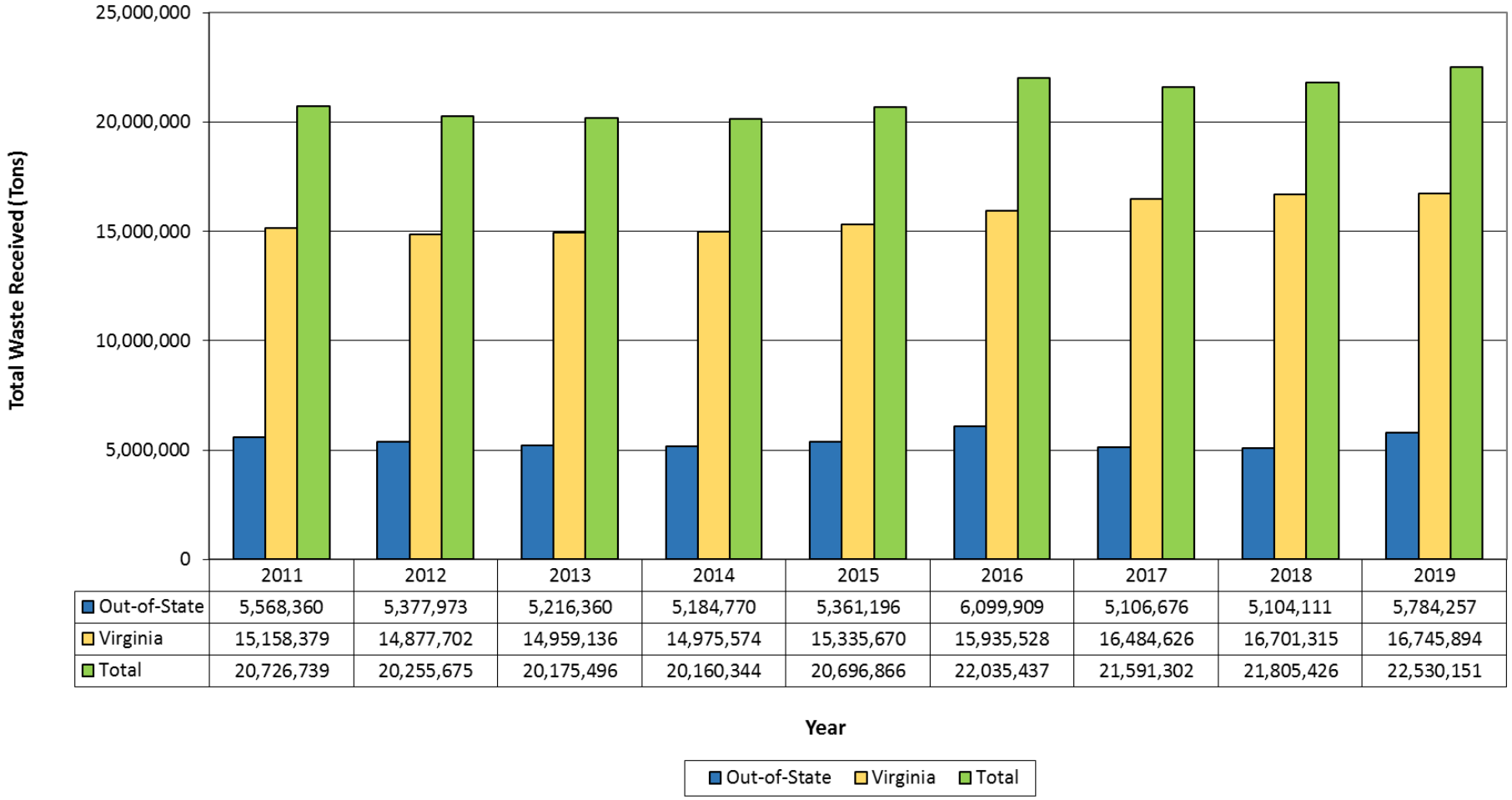
Waste Type	2019 Tons	Percentage
Municipal Solid Waste	14,266,532.21	63.32%
Construction/Demolition/Debris	4,377,177.57	19.43%
Industrial Waste	1,401,473.14	6.22%
Other Waste	794,587.47	3.53%
Incineration Ash	606,234.18	2.69%
Vegetative/Yard Waste	434,827.82	1.93%
Petroleum Contaminated Soil	250,242.03	1.11%
Sludge	250,206.91	1.11%
Tires	109,912.42	0.49%
White Goods	27,660.45	0.12%
Friable Asbestos	5,936.35	0.03%
Regulated Medical Waste	5,360.31	0.02%
Total	**22,530,150.85**	**100.00%**

Table 20 – Tons Recycled or Diverted from Solid Waste Facilities - 2019

Annual Reporting Period 2019 for Virginia Jurisdictions[8]						
Waste Type	**Total Waste Received**	**Tons Recycled or Diverted**	**Recycled Onsite**	**Recycled Offsite**	**Composted Onsite**	**Mulched Onsite**
Municipal Solid Waste	10,042,401.97	116,762.34	855.19	114,717.99	1,189.16	0.00
Construction/Demolition/Debris	3,916,126.38	414,108.26	263,565.17	107,086.06	0.00	43,457.03
Industrial Waste	802,185.29	24,409.39	0.00	2,180.39	22,229.00	0.00
Other Waste	586,739.18	274,444.12	14,995.73	258,638.33	750.06	60.00
Vegetative/Yard Waste	434,635.78	357,722.76	3,264.80	32,892.38	142,828.83	178,736.76
Incineration Ash	408,590.17	60,786.60	0.00	60,786.60	0.00	0.00
Sludge	207,289.08	17,139.76	0.00	0.00	17,139.76	0.00
Petroleum Contaminated Soil	201,719.60	57,497.00	0.00	57,497.00	0.00	0.00
Tires	109,738.09	98,515.17	54,282.93	44,232.24	0.00	0.00
White Goods	27,660.45	27,421.30	590.53	26,830.77	0.00	0.00
Regulated Medical Waste	5,231.87	0.00	0.00	0.00	0.00	0.00
Friable Asbestos	3,576.49	0.00	0.00	0.00	0.00	0.00
Total	**16,745,894.34**	**1,448,806.69**	**337,554.35**	**704,861.75**	**184,136.81**	**222,253.79**

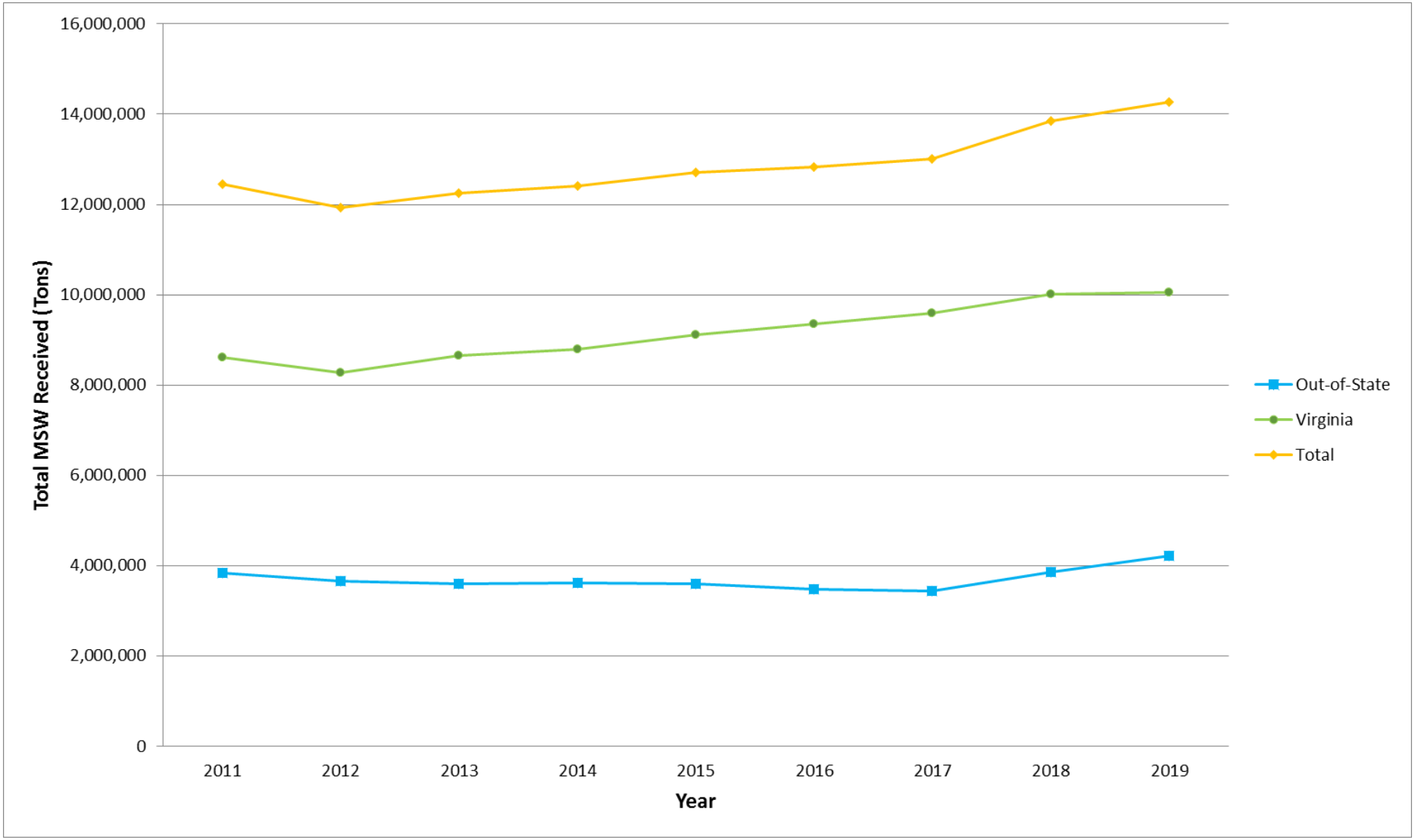
Annual Reporting Period 2019 for Out-of-State Jurisdictions						
Waste Type	**Total Waste Received**	**Tons Recycled or Diverted**	**Recycled Onsite**	**Recycled Offsite**	**Composted Onsite**	**Mulched Onsite**
Municipal Solid Waste	4,224,130.24	0.00	0.00	0.00	0.00	0.00
Industrial Waste	599,287.85	15,133.00	0.00	0.00	15,133.00	0.00
Construction/Demolition/Debris	461,051.19	943.07	175.00	734.07	0.00	34.00
Other Waste	207,848.28	35,095.38	0.00	35,095.38	0.00	0.00
Incineration Ash	197,644.01	115,106.86	0.00	115,106.86	0.00	0.00
Petroleum Contaminated Soil	48,522.43	0.00	0.00	0.00	0.00	0.00
Sludge	42,917.83	0.00	0.00	0.00	0.00	0.00
Friable Asbestos	2,359.86	0.00	0.00	0.00	0.00	0.00
Vegetative/Yard Waste	192.04	192.04	0.00	0.00	192.04	0.00
Tires	174.33	39.38	0.00	39.38	0.00	0.00
Regulated Medical Waste	128.44	0.00	0.00	0.00	0.00	0.00
Total	**5,784,256.50**	**166,509.73**	**175.00**	**150,975.69**	**15,325.04**	**34.00**

Figure 1 – Total Solid Waste Received from 2011 through 2019



	2011	2012	2013	2014	2015	2016	2017	2018	2019
Out-of-State	5,568,360	5,377,973	5,216,360	5,184,770	5,361,196	6,099,909	5,106,676	5,104,111	5,784,257
Virginia	15,158,379	14,877,702	14,959,136	14,975,574	15,335,670	15,935,528	16,484,626	16,701,315	16,745,894
Total	20,726,739	20,255,675	20,175,496	20,160,344	20,696,866	22,035,437	21,591,302	21,805,426	22,530,151

Figure 2 – Municipal Solid Waste Received from 2011 through 2019



Attachment 1 – SWIA Reporting Table (Form DEQ 50-25)

SOLID WASTE INFORMATION AND ASSESSMENT PROGRAM REPORTING TABLE - FORM DEQ 50-25 (Revised 12/17/2018)

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				
8	Has there been a change to the Annual Fee Billing Contact, Address or Telephone Number? □Yes □ N o				
	Contact First Name	Last Name		Contact Phone	
	Address			E-Mail	
	City	State		Zip Code	
9A and 9B Landfills only	9A	Remaining Permitted Capacity Cubic Yards		9B	Expected Remaining Permitted Life Years
10	Does facility use active scales? □ Yes or □ No		Landfills not using active scales - enter the total amount landfilled in cubic yards (sum of all jurisdictions)		
11	Originating Jurisdiction		11A Statement of Economic Benefits submitted? □**Yes** or □ **No**		
12	**Facilities landfilling VA incineration ash**	Use the supplemental form to provide the facility from which ash was received and the amount.			

Waste amounts measured in : □ Tons or □ Cubic Yards

Waste Type		Total Amount of Waste Received (a)	Mined Materials (b)	On-site Management of Waste						Sent Off-site to be: (i)		Stored On-site (j)	
				Landfilled (c)	Recycled (d)	Composted (e)	Incinerated (f)	Mulched (g)	Other (h)	Recycled	Treated, Stored, Disposed	Beginning of Reporting Period	End of Reporting Period
13	Municipal Solid Waste												
14	Construction/ Demolition/Debris												
15	Industrial Waste												
16	Regulated Medical Waste												
17	Vegetative/Yard Waste												
18	Incineration Ash												
19	Sludge												
20	Tires												
21	White Goods												
22	Friable Asbestos												
23	Petroleum Contaminated Soil												
24	Other Wastes (specify)												
25	Total												

Facility 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.

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

Only those facilities that landfill Virginia incineration ash provide this information.

Permit Number	**Annual Reporting Period**
Facilities landfilling VA incineration ash: **Received from Permit No., Facility Name**	**VA ash amount measured in** ☐ **Tons** ☐ **Cubic Yards**

Facility Comments

Facilities should use the same units of measure (Cubic Yards or Tons) for Rows 12 - 24. Facilities that do not landfill VA incineration ash do not complete this supplemental form. See the instructions for completing Form DEQ 50-25.