

Solid Waste Management Program



To protect the public interest through solid waste management planning and regulatory oversight of the County's refuse ordinances by providing efficient and effective collection, recycling, and disposal of solid waste for customers in an environmentally-responsible manner.

Focus

The Solid Waste Management Program (SWMP) is responsible for the management and/or oversight and long-range planning for all refuse collection, recycling and disposal operations within the County. Operations include a County-owned and operated refuse transfer station, two closed municipal solid waste landfills, a regional ashfill operated by the County, two recycling and disposal facilities, and equipment and facilities for refuse collection, disposal, and recycling operations.

Fund 40130, Leaf Collection, provides curbside vacuum leaf collection within Fairfax County's approved leaf collection districts. In FY 2020, approximately 25,000 homes are included within these districts. Revenue for Fund 40130 is derived from a levy charged to homeowners within leaf collection districts. The levy for leaf collection will decrease by \$0.001 from \$0.013 to \$0.012 per \$100 of assessed real estate value.

Fund 40140, Refuse Collection and Recycling Operations, provides for collection of waste and recycling from approximately 44,000 individual households within Fairfax County's approved sanitary districts. Revenue to support residential collection operations is derived from the refuse collection fee. In FY 2020, the annual collection rate of \$350 will increase to \$385 per home. The fund supports collection of waste and recycling from properties owned and occupied by Fairfax County, known as the County Agency Routes (CARs) program. Revenue for this service is collected from County agencies to which the service is provided. The rate for CARs will increase by \$0.50 from \$5.00 per cubic yard to \$5.50 per cubic yard.

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The Recycling Program is also funded through Fund 40140 and Fund 40150, Refuse Disposal (described below), and it is responsible for:

- Overall management of solid waste reduction and recycling programs;
- Plans for future recycling programs and waste reduction systems; and
- Ensuring that disposal capacity remains available for wastes by reducing the amount of waste sent for disposal through recycling programs that divert reusable or recyclable items from the waste stream to avoid disposal.

As part of the County's recycling program, the Fairfax County SWMP operates two manned locations, one at the I-66 Transfer Station and the other at the I-95 Landfill Complex.

Fund 40150, Refuse Disposal, funds operations at the I-66 Transfer Station, which receives refuse collected in northern and western portions of the County, and transports the refuse to Covanta Fairfax, Inc. in Lorton, Virginia. When the Covanta facility is unavailable due to maintenance and other operational issues, wastes are transported to the Prince William County landfill or other available landfills outside of Fairfax County. Leaves and grass are transported to compost facilities for processing in Prince William and Loudoun Counties. Other programs conducted at the Transfer Station include: operation of the Household Hazardous Waste program, electronics recycling, used motor oil, antifreeze and cooking oil recycling, latex paint recycling, automotive battery recycling, and scrap metal/appliance recycling. In FY 2020, the System Disposal Rate will increase from \$66 to \$68 per ton. The contractual disposal rate for FY 2020 will increase from \$62 to \$64 per ton.

Fund 40170, I-95 Refuse Disposal, funds the operation of the I-95 Landfill Complex. This location includes the municipal solid waste (MSW) landfill that was designed and constructed by the District of Columbia and operated from 1970 to 1995 until it was closed in December 1995. Since that time, the facility has accepted only ash generated by the combustion of waste. The ash landfill has been constructed in four phases and meets federal and state standards for the construction of new landfills, which require a double liner with a leachate collection system for the prevention of groundwater degradation. These operations are funded by a Refuse Disposal fee that will remain at \$26.50 per ton in FY 2020. Costs associated with operation and maintenance of environmental control equipment related to the closed portion of the landfill are anticipated to increase in future years. This is attributed to landfill gas collection, groundwater monitoring and remediation, stormwater management and leachate control. These activities ensure compliance with the facility's state-issued solid waste permit (SWP103) and stormwater permit (VAR051076), and applicable environmental regulations administered by the Virginia Department of Environmental Quality (VDEQ).

Specific description, discussion, and funding requirements for each fund of the SWMP can be found on the next page.

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OPERATIONAL FEE STRUCTURE

Solid Waste Operations Fee Structure¹

	Fund 40130, Leaf Collection	Fund 40140, Refuse Collection and Recycling Operations	Fund 40150, Refuse Disposal	Fund 40170, I-95 Refuse Disposal
FY 2020 Fee	\$0.012/\$100 Assessed Property Value	\$385 Curbside	\$68/Ton, System Fee Contract/Discount \$64/Ton, Recycling and Disposal Center	\$26.50/Ton
FY 2019 Fee	\$0.013/\$100 Assessed Property Value	\$350 Curbside	\$66/Ton, System Fee Contract/Discount \$62/Ton, Recycling and Disposal Center	\$26.50/Ton
Who Pays	Leaf District Residents	Sanitary District Residents	Private Collectors, Residents and County Agencies	Fund 40150 and Participating Jurisdictions

¹ There are numerous special rates that have been negotiated and implemented as needed, which are not reflected in the structure above. Examples include varying miscellaneous charges for yard debris (brush, grass, and leaves), tires, and others.

Key Performance Measures

Indicator	Prior Year Actuals			Current Estimate	Future Estimate
	FY 2016 Actual	FY 2017 Actual	FY 2018 Estimate/Actual	FY 2019	FY 2020
Output:					
Total tons of sanitary district refuse and recyclables	79,946	71,320	80,000/71,391	75,000	71,300
Total County tons recycled ¹	520,628	611,171	520,000/494,734	500,000	500,000
Ton of material delivered to Covanta ²	772,868	427,667	325,000/359,466	650,000	700,000
Efficiency:					
Cost per ton of refuse and recyclables collected in the sanitary districts ³	\$343.99	\$340.07	NA	NA	NA
Collection Cost per home collected in the sanitary districts ³	NA	NA	\$410/\$391	\$407	\$403
Disposal cost avoidance by recycling (\$ million) ⁴	\$29.2	\$35.4	NA	NA	NA
Cost per ton of material disposed (contract rate) ⁵	\$56	\$58	\$60	\$62	\$64
Service Quality:					
Percent of customers or citizens rating refuse services as good or better	98.70%	97.73%	95.00%/98.6%	95.00%	95.0%
Did the division meet the mandated recycling rate?	Yes	Yes	Yes/Yes	Yes	Yes
Tons delivered to Covanta in excess of Guaranteed Annual Tonnage (GAT) ²	2,868	0	NA/NA	NA	NA

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Indicator	Prior Year Actuals			Current Estimate	Future Estimate
	FY 2016 Actual	FY 2017 Actual	FY 2018 Estimate/Actual	FY 2019	FY 2020
Outcome:					
Customer satisfaction deviation from 95 percent target	3.70%	2.73%	0.00%/3.6%	0.00%	0.00%
Total County recycling rate	50.00%	50.00%	50.00%/49.0%	50.00%	50.00%
Percent of GAT Met ²	100.37%	0.00%	NA/0.00%	NA	NA

¹ VDEQ requires the annual recycling rate to be prepared on a calendar year basis. FY 2017 actuals were changed to reflect the correct total of County tons recycled.

² Covanta purchased the Energy Resource Recovery facility on February 2, 2016. Fairfax County entered into a Waste Disposal Agreement, which does not require a GAT to be met in future years.

³ For the FY 2020 cycle, the measure reporting cost per ton is replaced with cost per home in order to report the expense consistently with the charges that are assessed to customers.

⁴ Due to the rapidly changing nature of the worldwide recycling industry, this measure is outdated and inaccurate, and will be replaced with a new measure in FY 2021 that more accurately depicts the economic realities of the County's recycling program.

⁵ The cost per ton reflects the cost charged to customers.

Performance Measurement Results

The performance measures for the Solid Waste Management Program were met in FY 2018. The program exceeded the state-mandated recycling rate by 24 percent and the program exceeded the service quality measure of 95 percent of its customers rating refuse service as good or better by 3.60 percent. The actual number of tons delivered to the Covanta facility was greater than the FY 2018 projection due to the efforts to rebuild the Covanta facility as a result of the fire on February 2, 2017. The upgraded facility allows for Covanta to have a more efficient way to process waste from SWMP and produce more energy that can be sold to the local utility company.