

Fund 40150: Refuse Disposal

Mission

The Fairfax County Solid Waste Management Program (SWMP) is dedicated to maintaining a healthy and safe environment through the prevention of pollution and other contamination associated with the improper disposal of refuse. This is achieved by providing environmentally sound and economically viable management of refuse and recyclables through the operation of the I-66 Transfer Station in Fairfax, Virginia, and environmentally sound and economically viable disposal of waste at the Covanta facility in Lorton, Virginia. This fund also supports public disposal programs at the I-95 Landfill. The I-66 Transfer Station provides the County with the following services:



- Wastes are delivered to Covanta in Lorton, Virginia, for final disposal either directly by refuse collectors or transported from the I-66 Transfer Station where original collection occurred.
- Brush is ground into mulch on site by County staff and equipment for reuse.
- Leaves and grass are transported to composting facilities in Prince William and Loudoun Counties where they are processed into a soil amendment. Construction and demolition debris (CDD) is transported to CDD landfills.
- Other programs conducted at the I-66 Transfer Station include operation of the Recycling and Disposal Centers (RDCs) for residents and small businesses; Household Hazardous Waste; electronics recycling; used motor oil, antifreeze, and cooking oil recycling; latex paint recycling; automotive battery recycling; and scrap metal/appliance recycling.
- Landfill gas generated at the closed landfill generates methane captured and processed for power production.
- Staff and equipment from the I-66 Transfer Station respond to emergencies by providing debris removal during emergencies and disasters, including snow and ice control in winter months.

The combustion of waste for power production at the Covanta facility in Lorton:

- Generates 80 megawatts (MW) of renewable energy.
- Reduces the need for landfill space through volume reduction of solid waste that occurs in the combustion process.
- Reduces greenhouse gas emissions by generating renewable energy.
- Recovers ferrous and non-ferrous metal from the ash, which is recycled.
- Uses treated wastewater (rather than potable water) for cooling water used during the combustion process.

Focus

Fund 40150, Refuse Disposal, funds the operation of waste and recycling services to the community by providing a location for waste collection vehicles to empty their loads so they can be transported to Covanta for final disposal. The main role of the I-66 Transfer Station is to move waste collected in the northern and western parts of the County to the Covanta Fairfax, Inc. Waste to Energy Facility in Lorton or landfills outside the County for final disposal. The SWMP also uses County vehicles and private trucking companies to transport waste from the I-66 Transfer Station to its final disposal destination. The consolidation of loads of waste from small trucks into large trucks reduces the number of vehicles on the roads and operating costs for the County's solid waste management system as a whole.

In FY 2022, Fund 40150 moved to a single rate of \$66 per ton for all disposal and eliminate the discounted contractual disposal rate. This action is intended to simplify the rate structure and billing process as part of the conversion to a new billing system. In FY 2023, the Disposal Rate is increased to \$70 per ton. The tonnage will remain the same volume as FY 2021. The total FY 2023 revenue for this fund is projected to be \$55,332,035.

Fund 40150 pays a disposal fee per ton for all wastes disposed at the Covanta Waste to Energy Facility in Lorton. The SWMP recoups these costs through a disposal (tipping) fee to all users of the Covanta facility and those who deposit wastes at the transfer station.

The current contract between the County and Covanta guarantees the County sufficient capacity to dispose of its waste through January 31, 2026, with one additional 5-year extension available. The contract covers the period of Covanta's lease of the property to FY 2031. Operational risks for the facility are retained by Covanta. Moreover, the contract affords the County below market pricing and sustainability for waste disposal. Fairfax County is contractually obligated to deliver approximately 650,000 tons of municipal solid waste to Covanta annually.

Recycling operations is responsible for providing the overall management of solid waste reduction and recycling programs that are required by the County and for developing plans for future recycling programs and waste reduction systems. The annual recycling rate in Fairfax County, based on Calendar Year 2020 information, is 49.6 percent, well above the Commonwealth of Virginia's mandated rate of 25 percent. The agency's goal is to maintain a high rate of recycling in the County.

Performance measures for Solid Waste are displayed at a program-wide level. Please refer to the Solid Waste Management Program Overview in Volume 2 of the [FY 2023 Adopted Budget Plan](#) for those items.

Organizational Chart



Budget and Staff Resources

Category	FY 2021 Actual	FY 2022 Adopted	FY 2022 Revised	FY 2023 Advertised	FY 2023 Adopted
FUNDING					
Expenditures:					
Personnel Services	\$13,098,803	\$14,140,522	\$14,274,608	\$14,882,590	\$14,882,590
Operating Expenses	39,157,087	38,038,276	40,863,538	39,169,512	39,169,512
Capital Equipment	2,260,309	1,660,000	2,386,357	3,230,000	3,230,000
Capital Projects	1,966,843	0	7,222,088	967,581	967,581
Subtotal	\$56,483,042	\$53,838,798	\$64,746,591	\$58,249,683	\$58,249,683
Less:					
Recovered Costs	(\$97,505)	(\$97,505)	(\$97,505)	(\$97,505)	(\$97,505)
Total Expenditures	\$56,385,537	\$53,741,293	\$64,649,086	\$58,152,178	\$58,152,178
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)					
Regular	154 / 154	154 / 154	154 / 154	154 / 154	154 / 154

FY 2023 Funding Adjustments

The following funding adjustments from the FY 2022 Adopted Budget Plan are necessary to support the FY 2023 program. Included are all adjustments recommended by the County Executive that were approved by the Board of Supervisors, as well as any additional Board of Supervisors' actions, as approved in the adoption of the Budget on May 10, 2022.

Employee Compensation \$823,271

An increase of \$823,271 in Personnel Services includes \$500,243 for a 4.01 percent market rate adjustment (MRA) for all employees and \$232,732 for performance-based and longevity increases for non-uniformed merit employees, both effective July 2022. The remaining increase of \$90,296 is included for employee pay increases for specific job classes identified in the County's benchmark class survey of comparator jurisdictions.

Other Post-Employment Benefits (\$81,203)

A decrease of \$81,203 in Personnel Services reflects required adjustments associated with providing Other Post-Employment Benefits (OPEBs) to retirees, including the Retiree Health Benefits Subsidy. For more information on Other Post-Employment Benefits, please refer to Fund 73030, OPEB Trust, in Volume 2 of the FY 2023 Adopted Budget Plan.

Operating Expenses \$1,131,236

Funding of \$39,169,512 in Operating Expenses reflects an increase of \$1,131,236 over the FY 2022 Adopted Budget Plan. This is primarily due to an increase in refusal disposal expenses.

Capital Equipment \$1,570,000

Funding of \$3,230,000 in Capital Equipment includes an increase of \$1,570,000 over the FY 2022 Adopted Budget Plan. In FY 2023, funding for Capital Equipment includes \$465,000 for the replacement of three tractors; \$450,000 for the replacement of three trailers; \$375,000 for the replacement of one stationary crane; \$950,000 for the replacement of two-wheel loaders and \$990,000 for one shredder. These items have exceeded their useful life and are required to be replaced based on the overall age and condition of the equipment.

Capital Projects \$967,581

An increase of \$967,581 in Capital Project reflects additional funding required in FY 2023 to support civil work, site renovation and environmental compliance requirements at the I-66 Transfer Station.

Changes to FY 2022 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2022 Revised Budget Plan since passage of the FY 2022 Adopted Budget Plan. Included are all adjustments made as part of the FY 2021 Carryover Review, FY 2022 Mid-Year Review, FY 2022 Third Quarter Review, and all other approved changes through April 30, 2022.

Carryover Adjustments \$5,557,793

As part of the FY 2021 Carryover Review, the Board of Supervisors approved funding of \$5,557,793, including \$134,086 in Personnel Services for a one-time compensation adjustment of \$1,000 for merit employees and \$500 for non-merit employees paid in November 2021. The remaining amount of \$5,423,707 is due to \$1,379,769 encumbered carryover and \$171,850 in unencumbered carryover for the purchase of two electric transfer trailers, and \$3,872,088 in unexpended Capital Projects balance. Additionally, 4/4.0 FTE positions were eliminated as part of a review of unfunded positions in FY 2021.

Position Adjustments \$0

In order to properly align staff with workload requirements, 4/4.0 FTE positions were transferred from Fund 40140, Refuse Collection and Recycling Operations, to Fund 40150, Refuse Disposal.

Third Quarter Adjustments \$5,350,000

As part of the FY 2022 Third Quarter Review, the Board of Supervisors approved funding of \$5,350,000, including \$2,000,000 to address increase of refuse disposal costs, increase of fuel costs, and \$3,350,000 to meet requirements associated with installation and reconstruction of the methane gas extraction system at the I-66 facility.

Position Detail

The FY 2023 Adopted Budget Plan includes the following positions:

REFUSE DISPOSAL – 154 Positions			
1	Division Director	1	Code Specialist II
2	PW Environmental Services Managers	3	Code Specialists I
3	PW Environmental Services Specialists	1	Industrial Electrician II
1	PW Environmental Business Operator	5	Assistant Refuse Superintendents
1	Project Coordinator	1	Trades Supervisor
1	Constr/Mnt Project Manager I	3	Heavy Equipment Supervisors
1	Management Analyst IV	8	Lead Refuse Operators
3	Management Analysts II	50	Heavy Equipment Operators
1	Management Analyst I	1	Motor Equipment Operator
2	Financial Specialists III	2	Equipment Repairers
2	Financial Specialists II	1	Welder II
2	Financial Specialists I	1	Welder I
6	Environmental Technicians II	1	Human Resources Generalist I
1	Engineer III	2	Administrative Assistants V
1	Engineering Technician III	6	Administrative Assistants IV
2	Engineering Technicians II	16	Administrative Assistants III
1	Engineering Technician I	5	Senior Maintenance Workers
1	Network/Telecom. Analyst II	1	Maintenance Trade Helper II
1	Safety Analyst II	13	Maintenance Workers

A Fund Statement and a Summary of Capital Projects are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing" projects or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project).

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FUND STATEMENT

Category	FY 2021 Actual	FY 2022 Adopted Budget Plan	FY 2022 Revised Budget Plan	FY 2023 Advertised Budget Plan	FY 2023 Adopted Budget Plan
Beginning Balance	\$71,444,668	\$63,224,921	\$64,882,548	\$57,340,562	\$51,990,562
Revenue:					
Interest on Investments	\$179,012	\$700,000	\$700,000	\$179,012	\$179,012
Refuse Disposal Revenue	49,245,415	50,560,780	50,560,780	54,152,553	54,152,553
Other Revenue:					
White Goods	\$619,550	\$625,000	\$625,000	\$625,000	\$625,000
Sale of Equipment	23,363	145,000	145,000	0	0
Licensing Fees	0	82,320	82,320	82,320	82,320
Miscellaneous	382,077	270,000	270,000	293,150	293,150
Subtotal	\$1,024,990	\$1,122,320	\$1,122,320	\$1,000,470	\$1,000,470
Total Revenue	\$50,449,417	\$52,383,100	\$52,383,100	\$55,332,035	\$55,332,035
Total Available	\$121,894,085	\$115,608,021	\$117,265,648	\$112,672,597	\$107,322,597
Expenditures:					
Personnel Services	\$13,098,803	\$14,140,522	\$14,274,608	\$14,882,590	\$14,882,590
Operating Expenses	39,157,087	38,038,276	40,863,538	39,169,512	39,169,512
Recovered Costs	(97,505)	(97,505)	(97,505)	(97,505)	(97,505)
Capital Equipment	2,260,309	1,660,000	2,386,357	3,230,000	3,230,000
Capital Projects	1,966,843	0	7,222,088	967,581	967,581
Total Expenditures	\$56,385,537	\$53,741,293	\$64,649,086	\$58,152,178	\$58,152,178
Transfers Out:					
General Fund (10001) ¹	\$626,000	\$626,000	\$626,000	\$707,000	\$707,000
Total Transfers Out	\$626,000	\$626,000	\$626,000	\$707,000	\$707,000
Total Disbursements	\$57,011,537	\$54,367,293	\$65,275,086	\$58,859,178	\$58,859,178
Ending Balance²	\$64,882,548	\$61,240,728	\$51,990,562	\$53,813,419	\$48,463,419
Reserves:					
Capital Equipment Reserve ³	\$6,488,255	\$6,124,073	\$5,199,056	\$5,381,342	\$4,846,342
Operating Reserve ⁴	9,732,382	9,186,109	7,798,584	8,072,012	7,269,512
Rate Stabilization Reserve ⁵	33,738,925	31,845,179	27,035,093	27,982,978	25,200,978
Environmental Reserve ⁶	5,190,604	4,899,258	4,159,245	4,305,074	3,877,074
Construction and Infrastructure Reserve ⁷	9,732,382	9,186,109	7,798,584	8,072,013	7,269,513
Unreserved Balance	\$0	\$0	\$0	\$0	\$0
System Disposal Rate/Ton	\$68	\$66	\$66	\$70	\$70
Discounted Disposal Rate/Ton ⁸	\$64	\$66	\$66	\$70	\$70

¹ In FY 2023, there is an increase from \$626,000 to \$707,000 in the amount transferred to the General Fund to partially offset central support services supported by the General Fund, which benefits Fund 40150. These indirect costs include support services such as Human Resources, Purchasing, Budgeting and other administrative services.

² Ending Balance fluctuations are a result of operating and revenue requirements that change annually. Funding is carried forward each fiscal year to provide flexibility given the uncertainty of market conditions, tipping fee negotiations, and expenditure requirements.

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³ The Capital Equipment Reserve provides for the timely replacement of equipment required to operate the I-66 Transfer Station. Proceeds from the sale of equipment as well as a small portion of Refuse Disposal Revenue are used to fund this reserve. The amount fluctuates based on anticipated replacement schedules of the existing fleet of vehicles.

⁴ The Operating Reserve provides funds to react to unanticipated events such as significant changes in waste quantities, increases in contract disposal rates at composting facilities and landfills, increases in fuel costs, significant reductions in revenues, etc. The reserve also acts as a rate stabilization reserve, allowing smooth transition to rate changes minimizing the impact on customers.

⁵ The Rate Stabilization Reserve is maintained in order to safeguard against significant increases in tipping fees charged to users of the Fairfax County Solid Waste Management Program.

⁶ The Environmental Reserve is a contingency fund, assuring that the County has funds to implement unplanned actions to protect the environment or meet regulatory requirements related to the closed landfill at the I-66 Complex. Specific examples of current and future environmental projects are likely to include landfill gas control, groundwater protective measures, stormwater, and wastewater management.

⁷ The Construction and Infrastructure Reserve provides for future improvements at the I-66 Transfer Station.

⁸ In August 1998 (FY 1999), Fairfax County implemented a contractual rate discount that was offered to any hauler that guaranteed all of its collected refuse or a specified tonnage amount would be delivered to the Energy/Resource Recovery Facility (E/RRF) or other County disposal sites. In FY 2022, Fund 40150 moved to a single rate of \$66 per ton for all disposal and eliminate the discounted rate. In FY 2023, the rate will increase to \$70 per ton.

SUMMARY OF CAPITAL PROJECTS

Project	Total Project Estimate	FY 2021 Actual Expenditures	FY 2022 Revised Budget	FY 2023 Advertised Budget Plan	FY 2023 Adopted Budget Plan
I-66 Administrative Building Renovation (SW-000011)	\$3,370,219	\$503,497.02	\$278,972.81	\$467,581	\$467,581
I-66 Basement Drainage Renovation (SW-000023)	250,000	0.00	191,548.97	0	0
I-66 Environmental Compliance (SW-000013)	1,750,669	160,437.00	615,380.36	500,000	500,000
I-66 Landfill Methane Gas Recovery (SW-000029)	4,350,000	0.00	4,350,000.00	0	0
I-66 Transport Study/Site Redevelopment (SW-000024)	3,303,623	1,302,908.63	1,786,185.98	0	0
Total	\$13,024,511	\$1,966,842.65	\$7,222,088.12	\$967,581	\$967,581