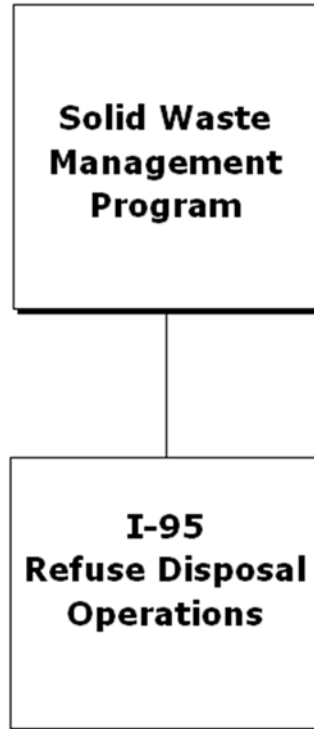


# Fund 40170





## I-95 Refuse Disposal



### Mission

The Fairfax County Solid Waste Management Program (SWMP) is dedicated to keeping Fairfax County clean by preventing 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-95 Landfill Complex in Lorton, Virginia. The primary activity performed is the landfilling of ash generated from the combustion of waste at the Energy/Resource Recovery Facility (E/RRF). The following activities are conducted at this location:

I-95 Refuse Disposal supports the following County Vision Elements:

-  *Creating a Culture of Engagement*
-  *Connecting People and Places*
-  *Practicing Environmental Stewardship*
-  *Maintaining Safe and Caring Communities*

- The E/RRF combustion process generates ash, which is landfilled on site by County employees. Ash from the E/RRF, a similar Covanta facility serving the City of Alexandria / Arlington County, and the Noman Cole Plant, are disposed of at the I-95 Ash Landfill.
- Brush is ground into mulch for reuse using County staff and equipment.

## Fund 40170 I-95 Refuse Disposal

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- Leaves and grass are transported to composting facilities in Prince William and Loudoun Counties where it is processed into a soil amendment.
- Landfill gas generated at the closed landfill generates methane captured and processed for power production.
- Staff and equipment from the I-95 facility are used to respond to emergencies by providing debris removal during emergencies and disasters, including snow and ice control in winter months.
- Other programs conducted at the I-95 facility include: operation of a Recycling and Disposal Center (RDC) for residents and small businesses, Household Hazardous Waste, recycling of electronics, motor oil, antifreeze, cooking oil, latex paint, automotive batteries, and scrap metal.
- The SWMP manages environmental control programs for the closed portion of the landfill as required by federal and state regulations. Systems to control landfill gas and groundwater and stormwater impacts attributed to waste disposal are operated and maintained by County staff.

### Focus

The County has operated the I-95 Landfill Complex for more than 25 years providing solid waste services to residents and businesses. This is the location of the municipal solid waste (MSW) landfill that was designed and constructed by the District of Columbia and operated from 1970 to 1995. This landfill accepted unprocessed waste that is not combusted and closed in December 1995; since that time, the facility has accepted only ash generated by the combustion of waste.

The ash landfill has been designed in four phases and meets federal and state standards for the construction of new landfills, which requires a double liner with a leachate collection system for the prevention of groundwater degradation. Phases I and II have reached capacity and have been covered with an intermediate cover system. Phase III is currently being used for ash disposal and has at least five years of capacity remaining. Phase IV has not yet been constructed.

The E/RRF's suite of pollution control equipment includes a dolomitic lime system that chemically treats the ash to reduce the potential of mobilizing metals that may leach from the ash after landfilling. The ash is tested twice per year using the Toxicity Characteristic Leaching Procedure (TCLP), as specified in federal regulations. During FY 2016, analysis of the ash by a certified laboratory found the ash to be non-hazardous, demonstrating that all parameters analyzed are within the limits for all regulated constituents.



This facility is responsible for the management of the closed portion of the municipal solid waste landfill including landfill gas control, groundwater monitoring and remediation, storm water management and leachate control. These activities ensure compliance with the facility's state-issued permit (SWP103) and applicable environmental regulations administered by the Virginia Department of Environmental Quality (VDEQ).

## Fund 40170 I-95 Refuse Disposal

The ash disposal fee in FY 2018 for Fund 40170, I-95 Refuse Disposal, will remain at \$25.50 per ton to provide adequate funding for operations and capital projects and maintain acceptable Post-Closure reserves. The Post-Closure Reserve is required for a 30-year period after the ashfill landfill is closed as mandated by federal and state regulations. The FY 2018 Post-Closure Reserve is projected to be \$24.0 million or 46 percent of the permit requirement of \$51.9 million. Prior to FY 2010, high interest earning rates had provided sufficient funds to support operating expenditures, as well as to provide adequate reserve funding required for capital projects and post closure care. It had allowed the fund to maintain the lower ash disposal fee of \$11.50 per ton from FY 2001 to FY 2009. Since that time, interest earnings have continued to decline and operational requirements have exceeded available resources. Increased maintenance needs require additional funding to ensure that the landfill remains in compliance with its many permits. In addition, the ash tonnage has declined in recent years, which can be attributed to the sluggish economy and increases in recycling. It should also be noted that FY 2017 tonnage estimates (and resulting revenue) were impacted by the fire at the Covanta facility that happened on February 2, 2017. The estimated FY 2018 revenue from the ash disposal fee assumes a return to recent trends outside of the period impacted by the fire and strives to continue to build the state and federally mandated Post-Closure Reserve requirements.

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 2018 Adopted Budget Plan](#) for those items.

### Budget and Staff Resources

Category	FY 2016 Actual	FY 2017 Adopted	FY 2017 Revised	FY 2018 Advertised	FY 2018 Adopted
<b>FUNDING</b>					
Expenditures:					
Personnel Services	\$3,484,952	\$3,870,633	\$3,870,633	\$3,916,795	\$3,916,795
Operating Expenses	3,436,683	3,787,316	3,968,680	3,302,079	3,302,079
Capital Equipment	30,928	550,000	950,000	850,000	850,000
Capital Projects	657,346	600,000	7,673,691	2,550,000	2,550,000
<b>Subtotal</b>	<b>\$7,609,909</b>	<b>\$8,807,949</b>	<b>\$16,463,004</b>	<b>\$10,618,874</b>	<b>\$10,618,874</b>
Less:					
Recovered Costs	(\$293,511)	\$0	\$0	\$0	\$0
<b>Total Expenditures</b>	<b>\$7,316,398</b>	<b>\$8,807,949</b>	<b>\$16,463,004</b>	<b>\$10,618,874</b>	<b>\$10,618,874</b>
<b>AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)</b>					
Regular	40 / 40	40 / 40	40 / 40	40 / 40	40 / 40
1 Engineer V	1	Engineering Technician III	1	Maintenance Supervisor	
1 Senior Engineer III	3	Engineering Technicians II	1	Administrative Assistant II	
1 Public Works Environmental Services Manager	2	Engineering Technicians I	1	Senior Maintenance Worker	
1 Sr. Environmental Specialist	1	Financial Specialist II	5	Maintenance Workers	
4 Public Works Env. Svcs. Specs.	1	Management Analyst I	1	Motor Equipment Operator	
9 Heavy Equipment Operators	4	Asst. Refuse Superintendents	1	Safety Analyst	
	1	Project Manager II			
<b>TOTAL POSITIONS</b>					
<b>40 Positions / 40.0 FTE</b>					

# Fund 40170

## I-95 Refuse Disposal

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### FY 2018 Funding Adjustments

The following funding adjustments from the FY 2017 Adopted Budget Plan are necessary to support the FY 2018 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 2, 2017.

- ◆ **Employee Compensation** **\$46,175**  
An increase of \$46,175 in Personnel Services is for performance-based and longevity increases for non-uniformed merit employees effective July 2017.
  
- ◆ **Other Post-Employment Benefits** **(\$13)**  
A decrease of \$13 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 Fund, in Volume 2 of the FY 2018 Adopted Budget Plan.
  
- ◆ **Operating Expenses** **(\$485,237)**  
A decrease of \$485,237 in Operating Expenses is based on a thorough analysis of the relationship between Operating Expenses and Recovered Costs within the various SWMP funds. Starting in FY 2018 the only charge for administrative overhead costs within the SWMP funds will be incurred in Fund 40130, Leaf Collection, from Fund 40140, Refuse Collection and Recycling Operations, and Fund 40150, Refuse Disposal. This is due to Fund 40130, Leaf Collection, having no full time merit positions and thus a charge for administrative support from the other funds is warranted. In previous years, all SWMP funds billed one another for overhead charges, resulting in largely offsetting amounts of Operating Expenses and Recovered Costs. It should be noted that appropriate administrative overhead costs from outside the SWMP funds (from Agency 25, Business Planning and Support) will be divided between the SWMP funds on a proportional basis.
  
- ◆ **Capital Equipment** **\$850,000**  
Funding of \$850,000 in Capital Equipment is included for the replacement of one material handler and one rubber tire front loader. 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** **\$2,550,000**  
Funding of \$2,550,000 is included in Capital Projects in FY 2018. An amount of \$1,600,000 will support the construction of an enclosed facility to handle the Hazardous Waste Materials at the I-95 Complex improving environmental conditions and customer service. The building will be composed of two components: the concrete base of the floor and walls, and a fabric structure to enclose the facility. The base of the structure provides push walls for dumping and loading activities as well as sound suppression. The fabric structure provides protection from the elements, as well as natural lighting with no internal columns for dumping clearance inside the structure. In addition, an amount of \$950,000 will support the I-95 Landfill Lot B Redesign project.

# Fund 40170

## I-95 Refuse Disposal

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### **Changes to FY 2017 Adopted Budget Plan**

*The following funding adjustments reflect all approved changes in the FY 2017 Revised Budget Plan since passage of the FY 2017 Adopted Budget Plan. Included are all adjustments made as part of the FY 2016 Carryover Review, FY 2017 Third Quarter Review, and all other approved changes through April 30, 2017.*

- ◆ **Carryover Adjustments** **\$7,655,055**  
As part of the *FY 2016 Carryover Review*, the Board of Supervisors approved an increase of \$7,655,055, including \$7,073,691 in unexpended Capital Project balances, \$181,364 in encumbered carryover in Operating Expenses, and \$400,000 in Capital Equipment to support the replacement of two pit scales at the Recycling and Disposal Center at the I-95 landfill that have outlived their useful life and are not cost effective to repair.
  
- ◆ **Position Adjustments** **\$0**  
In order to properly align staff with workload requirements, 1/1.0 FTE position was transferred from Fund 40170, I-95 Refuse Disposal, to Agency 31, Land Development Services, 1/1.0 FTE position was transferred from Fund 40150, Refuse Disposal, to Fund 40170, and 1/1.0 FTE position was transferred from Fund 40140, Refuse Collection and Recycling Operations, to Fund 40170. In addition, in order to better support the Department of Public Works and Environmental Services' (DPWES) four core business areas and enhance department-wide initiatives, a total of 19/19.0 FTE positions were transferred to Agency 25, Business Planning and Support (BPS), from multiple divisions within DPWES. Of this total, 1/1.0 FTE position was transferred from Fund 40170, I-95 Refuse Disposal, to BPS in FY 2017.

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).

# Fund 40170 I-95 Refuse Disposal

## FUND STATEMENT

### Fund 40170, I-95 Refuse Disposal

	FY 2016 Actual	FY 2017 Adopted Budget Plan	FY 2017 Revised Budget Plan	FY 2018 Advertised Budget Plan	FY 2018 Adopted Budget Plan
<b>Beginning Balance</b>	\$35,657,796	\$27,989,349	\$36,694,304	\$29,169,437	\$26,030,137
Revenue:					
Interest on Investments	\$96,831	\$53,437	\$53,437	\$59,256	\$59,256
Refuse Disposal Revenue <sup>1</sup>	8,213,140	8,856,500	5,717,200	8,698,500	8,698,500
Other Revenue:					
Fees, Landfill Permit	\$0	\$7,200	\$7,200	\$7,200	\$7,200
Sale of Equipment	12,871	5,000	5,000	330,000	330,000
Miscellaneous Revenue	216,064	202,000	202,000	204,000	204,000
Subtotal Other Revenue	\$228,935	\$214,200	\$214,200	\$541,200	\$541,200
<b>Total Revenue</b>	\$8,538,906	\$9,124,137	\$5,984,837	\$9,298,956	\$9,298,956
<b>Total Available</b>	\$44,196,702	\$37,113,486	\$42,679,141	\$38,468,393	\$35,329,093
Expenditures:					
Personnel Services	\$3,484,952	\$3,870,633	\$3,870,633	\$3,916,795	\$3,916,795
Operating Expenses <sup>2</sup>	3,436,683	3,787,316	3,968,680	3,302,079	3,302,079
Recovered Costs <sup>2</sup>	(293,511)	0	0	0	0
Capital Equipment	30,928	550,000	950,000	850,000	850,000
Capital Projects	657,346	600,000	7,673,691	2,550,000	2,550,000
<b>Total Expenditures</b>	\$7,316,398	\$8,807,949	\$16,463,004	\$10,618,874	\$10,618,874
Transfers Out:					
General Fund (10001) <sup>3</sup>	\$186,000	\$186,000	\$186,000	\$186,000	\$186,000
<b>Total Transfers Out</b>	\$186,000	\$186,000	\$186,000	\$186,000	\$186,000
<b>Total Disbursements</b>	\$7,502,398	\$8,993,949	\$16,649,004	\$10,804,874	\$10,804,874
<b>Ending Balance<sup>4</sup></b>	\$36,694,304	\$28,119,537	\$26,030,137	\$27,663,519	\$24,524,219
Reserves					
Active Cell Closure Liability Reserve <sup>5</sup>	\$257,165	\$257,165	\$257,165	\$143,915	\$143,915
Environmental Reserve <sup>6</sup>	500,000	500,000	1,000,000	200,000	100,000
Operating Reserve <sup>7</sup>	8,653,318	162,372	572,972	119,604	80,304
Capital Equipment Reserve <sup>8</sup>	283,821	200,000	200,000	200,000	200,000
Post-Closure Reserve <sup>9</sup>	27,000,000	27,000,000	24,000,000	27,000,000	24,000,000
<b>Unreserved Ending Balance</b>	\$0	\$0	\$0	\$0	\$0
Disposal Fee/Ton <sup>10</sup>	\$24.50	\$25.50	\$25.50	\$25.50	\$25.50

# Fund 40170

## I-95 Refuse Disposal

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<sup>1</sup> The *FY 2017 Revised Budget Plan* Refuse Disposal Revenue was reduced by an amount of \$3,139,300 based on a projected decrease associated with lower levels of disposal and hauling of ash services from the Covanta Fairfax Inc. facility due to the fire that happened at the facility on February 2, 2017.

<sup>2</sup> After a thorough analysis of the relationship between Operating Expenses and Recovered Costs within the various SWMP funds, starting in FY 2018 the only charge for administrative overhead costs within the SWMP funds will be incurred in Fund 40130, Leaf Collection, from Fund 40140, Refuse Collection and Recycling Operations, and Fund 40150, Refuse Disposal. This is due to Fund 40130, Leaf Collection, having no full time merit positions and thus a charge for administrative support from the other funds is warranted. In previous years, all SWMP funds billed one another for overhead charges, resulting in largely offsetting amounts of Operating Expenses and Recovered Costs. It should be noted that appropriate administrative overhead costs from outside the SWMP funds (from Agency 25, Business Planning and Support) will be divided between the SWMP funds on a proportional basis.

<sup>3</sup> Funding in the amount of \$186,000 is transferred to the General Fund to partially offset central support services supported by the General Fund which benefit Fund 40170. These indirect costs include support services such as Human Resources, Purchasing, Budget and other administrative services.

<sup>4</sup> 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 and expenditure requirements.

<sup>5</sup> The Active Cell Closure Liability Reserve is necessary for the closure of active disposal cells of the Ashfill and is necessary for ashfilling activities to progress in accord with state requirements.

<sup>6</sup> The Environmental Reserve assures that the County has funds to implement, or at least start to implement, unplanned actions to protect the environment or meet regulatory requirements. Specific examples of future environmental projects are likely to include: Landfill Gas Control Projects, Stormwater Management, Wastewater (Leachate) Management, and Groundwater protective measures.

<sup>7</sup> The Operating Reserve is used for the timely replacement of obsolete computer equipment, unanticipated operating expenditures and fluctuations in revenues.

<sup>8</sup> The Capital Equipment Reserve provides for the timely replacement of equipment required to operate the I-95 Ashfill. Funds are transferred from Ash Disposal Revenue to equipment reserve as are proceeds from the sale of equipment. The reserve requirement is based on a replacement schedule composed of yearly payments to the reserve, which are based on the useful life of the equipment and vehicles.

<sup>9</sup> The Post-Closure Reserve is required for a 30-year period after the ashfill closes and is mandated by federal and state regulations. The projected reserve of \$24.0 million for FY 2018 represents 46 percent of the estimated requirement of \$51.9 million and is not sufficient to cover all identified costs. Additional funds will be set aside in future years.

<sup>10</sup> The FY 2018 ash disposal fee will remain at \$25.50 per ton to provide adequate funding for operations and capital projects and maintain acceptable Post-Closure reserves.

# Fund 40170 I-95 Refuse Disposal

## FY 2018 Summary of Capital Projects

### Fund 40170, I-95 Refuse Disposal

<b>Project</b>	<b>Total Project Estimate</b>	<b>FY 2016 Actual Expenditures</b>	<b>FY 2017 Revised Budget</b>	<b>FY 2018 Advertised Budget Plan</b>	<b>FY 2018 Adopted Budget Plan</b>
I-95 Landfill Closure (SW-000019)	\$1,840,098	\$0.00	\$1,838,644.11	\$0	\$0
I-95 Landfill Environmental Compliance (SW-000016)	1,079,536	2,471.00	979,818.19	0	0
I-95 Landfill Leachate Facility (SW-000018)	3,860,478	79,648.87	3,331,965.95	0	0
I-95 Landfill Lot B Redesign (SW-000020)	1,250,000	0.00	300,000.00	950,000	950,000
I-95 Methane Gas Recovery (SW-000014)	2,259,232	575,225.72	622,100.27	0	0
I-95 Operation Building Renovation (SW-000015)	28,952	0.00	1,162.57	0	0
I-95 Transfer/Materials Recovery Fac. (SW-000022)	2,200,000	0.00	600,000.00	1,600,000	1,600,000
<b>Total</b>	<b>\$12,518,296</b>	<b>\$657,345.59</b>	<b>\$7,673,691.09</b>	<b>\$2,550,000</b>	<b>\$2,550,000</b>