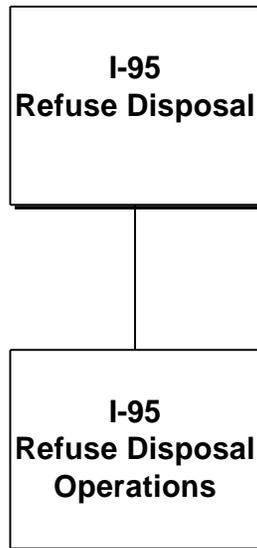


**DEPARTMENT OF PUBLIC WORKS
AND ENVIRONMENTAL SERVICES
SOLID WASTE MANAGEMENT**



FUND 114

I-95 REFUSE DISPOSAL

Agency Position Summary

37 Regular Positions / 37.0 Regular Staff Years

Position Detail Information

I-95 REFUSE DISPOSAL

2	Engineers III
1	Engineer II
2	Engineer Technicians III
4	Engineer Technicians II
3	Engineer Technicians I
1	Refuse Superintendent
3	Assistant Refuse Superintendents
1	Industrial Electrician II
1	Industrial Electrician I
8	Heavy Equipment Operators
1	Motor Equipment Operator
2	Weighmasters
1	Management Analyst I
1	Clerical Specialist
6	Public Service Workers I
37	Positions
37.0	Staff Years

FUND 114 I-95 REFUSE DISPOSAL

Agency Mission

To manage the I-95 Landfill in such a manner as to provide a site where solid waste and recyclable materials from County citizens are gathered and properly disposed, and a deposit site where ash from the Energy/Resource Recovery Facility and other participating municipalities can be properly disposed.

Agency Summary					
Category	FY 2000 Actual	FY 2001 Adopted Budget Plan	FY 2001 Revised Budget Plan	FY 2002 Advertised Budget Plan	FY 2002 Adopted Budget Plan
Authorized Positions/Staff Years					
Regular	37/ 37	37/ 37	37/ 37	37/ 37	37/ 37
Expenditures:					
Personnel Services	\$1,495,210	\$1,843,372	\$1,782,916	\$2,004,667	\$2,024,714
Operating Expenses	2,620,169	2,263,730	2,982,519	2,733,809	2,733,809
Capital Equipment	338,993	370,500	384,546	869,300	869,300
Capital Projects	609,805	0	23,174,569	8,287,580	8,287,580
Total Expenditures	\$5,064,177	\$4,477,602	\$28,324,550	\$13,895,356	\$13,915,403

Board of Supervisors' Adjustments

The following funding adjustments reflect all changes to the FY 2002 Advertised Budget Plan, as approved by the Board of Supervisors on April 30, 2001:

- The 1.0 percent cost-of-living adjustment approved by the Board of Supervisors, and previously held in reserve, has been spread to County agencies and funds. This action results in an increase of \$20,047.

The following funding adjustments reflect all approved changes to the FY 2001 Revised Budget Plan from January 1, 2001 through April 23, 2001. Included are all adjustments made as part of the FY 2001 Third Quarter Review:

- A net increase of \$627,379 in expenditures, \$695,385 in Operating Expenses primarily for processing an increase in non-burnable waste and additional costs to meet more stringent monitoring and testing of groundwater required by State and Federal agencies. These costs were offset by savings of \$68,006 in Personnel Services and Capital Equipment.

County Executive Proposed FY 2002 Advertised Budget Plan

Purpose

The I-95 Sanitary Landfill has operated for more than two decades, and has served the solid waste disposal needs of the residents of the participating jurisdictions who have utilized the facility. The municipal solid waste (MSW) section of the I-95 Landfill closed in December 1995, and since that time the facility has accepted only ash material for land burial. The I-95 Sanitary Landfill continues to operate as a model facility, meeting permit requirements, inspection criteria, and availability requirements for the participating jurisdictions and customers of the facility.

FUND 114

I-95 REFUSE DISPOSAL

Key Accomplishments

- ◆ In cooperation with the Virginia Department of Environmental Quality (DEQ), amended the facility's operating permit to adopt required Ground Water Protection Standards (GPS).
- ◆ Began construction of the second phase of the Area 3 Lined Landfill for the continued acceptance of ash from the Fairfax and Arlington/Alexandria Waste to Energy Facilities.
- ◆ Processed an additional 18,131 tons of ash in FY 2000 while remaining within budget limitations with existing equipment and employees.
- ◆ Processed landfill gas for our energy partner, Michigan Co-generation Systems, exceeding the target delivery criteria of 96 percent by a factor of 2.4 percent.

FY 2002 Initiatives

- ◆ Update the landfill closure plan to conform to the revised Virginia Department of Environmental Quality's landfill closure regulations.
- ◆ Continue closure work at the appropriate areas of the landfill site.
- ◆ Evaluate potential ash reuse in lieu of gravel, which may result in significant savings.
- ◆ Continue construction work on Area 3 Lined Landfill for ash disposal.

Performance Measurement Results

During FY 2000, the I-95 Landfill Facility processed 380,070 tons of ash, an increase of 18,131 tons over FY 1999. The \$14/ton cost to dispose of the ash in FY 2000 was decreased to \$11.50 per ton in FY 2001. This was accomplished despite increased processing costs due to higher tonnages. Increasing efficient operating processes permitted the implementation of the \$2.50 rate reduction. A more accurate measurement system for ash site staff hours during FY 2001 negates comparison to the FY 2000 estimate. The revised measurement technique now includes the additional activities of storm water management, erosion controls, and administration. This will provide a more accurate measurement for current and future years. The I-95 Landfill complex received "Satisfactory" ratings (the highest possible rating) from the Department of Environmental Quality for all inspections conducted during FY 2000. The facility is in compliance with all provisions of the permits and the Virginia Solid Waste Management regulations.

Funding Adjustments

The following funding adjustments from the FY 2001 Revised Budget Plan are necessary to support the FY 2002 programs:

- ◆ An increase of \$161,295 in Personnel Services associated with salary adjustments necessary to support the County's Compensation Program.
- ◆ An increase of \$425,345 in Operating Expenses primarily related to outside contractor expenses based on revised landfill permit requirements of the Environmental Protection Agency and the Virginia Department of Environmental Quality.
- ◆ An increase of \$21,330 in Operating Expenses for Department of Vehicle Services charges based on anticipated charges for fuel, the County motor pool, vehicle replacement, and maintenance costs.

FUND 114

I-95 REFUSE DISPOSAL

- ◆ An amount of \$869,300 is funded for Capital Equipment in FY 2002. This includes replacement purchases consisting of one pickup truck, \$26,500, one Rubber Tire Loader, \$295,500, and two bulldozers, \$488,500. Funding for the replacement of these items of equipment is based on Department of Vehicle Service's recommendation and replacement criteria consisting of vehicle (machine) age, usage, condition, and maintenance cost relative to the average of that particular vehicle or equipment class. In addition, an amount of \$58,800 is included to replace four submersible pumps. The replacement pumps would utilize stainless steel components at the wetted end to withstand corrosion and fatigue longer than the current cast iron models.
- ◆ An amount of \$8,287,580 is required for Project 186650 in order to complete the closure of the Municipal Solid Waste (MSW) area of the I-95 Landfill.

The following funding adjustments reflect all approved changes in the FY 2001 Revised Budget Plan since passage of the FY 2001 Adopted Budget Plan. Included are all adjustments made as part of the FY 2000 Carryover Review and all other approved changes through December 31, 2000:

- ◆ As part of the FY 2000 Carryover Review, expenditures for FY 2001 were increased a total of \$23,219,569 that included \$10,046 for encumbered expenditure obligations, and unencumbered CMI savings of \$34,954, and \$23,174,569 for unexpended Capital Project balances.

Objectives

- ◆ To manage the I-95 Landfill in an efficient, environmentally safe manner, meeting 100 percent of the regulatory standards.
- ◆ To provide a permitted site where ash resulting from the Energy/Resource Recovery (E/RR) Facility and other participating municipalities can properly be disposed.

Performance Indicators

Indicator	Prior Year Actuals			Current Estimate	Future Estimate
	FY 1998 Actual	FY 1999 Actual	FY 2000 Estimate/Actual	FY 2001	FY 2002
Output:					
Tons of ash received	337,197	361,939	355,672 / 380,070	386,301	382,866
Virginia Department Environmental Quality (DEQ) inspections addressed	4	4	12 / 8	12	12
Efficiency:					
Cost per ton to dispose of ash	\$20.00	\$16.00	\$14.00 / \$14.00	\$11.50	\$11.50
Staff hours spent per ton of ash disposed ¹	59.0	59.7	59.3 / 54.2	55.1	54.6
Service Quality:					
Satisfactory DEQ Inspection reports	4	4	12 / 8	12	12
Outcome:					
Percent satisfactory DEQ inspection ratings	100%	100%	100%	100%	100%

¹ Beginning in FY 2000, a revised measurement technique now includes the additional activities of Storm Water Management, erosion controls, and administration to more accurately measure tons of ash disposed per ash site staff hour.

FUND 114

I-95 REFUSE DISPOSAL

A Fund Statement, a Summary of Capital Projects, and Project Detail Table for each project funded in FY 2002 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 114 I-95 REFUSE DISPOSAL

FUND STATEMENT

Fund Type G10, Special Revenue Funds

Fund 114, I-95 Refuse Disposal

	FY 2000 Actual	FY 2001 Adopted Budget Plan	FY 2001 Revised Budget Plan	FY 2002 Advertised Budget Plan	FY 2002 Adopted Budget Plan
Beginning Balance	\$72,516,412	\$52,235,278	\$76,973,319	\$56,610,902	\$59,704,422
Revenue:					
Interest on Investments	\$3,652,701	\$2,480,026	\$5,834,091	\$3,442,481	\$3,442,481
Refuse Disposal Revenue:					
I-95 ERR (Ash)	4,190,349	3,031,078	3,348,812	3,305,209	3,305,209
Arlington/Alexandria ERR	1,188,292	1,000,500	1,035,000	1,039,100	1,039,100
County of Fairfax	171,192	420,000	501,500	501,500	501,500
District of Columbia	0	0	0	0	0
Lower Potomac	75,208	58,650	58,650	58,650	58,650
Subtotal	\$5,625,041	\$4,510,228	\$4,943,962	\$4,904,459	\$4,904,459
Miscellaneous Revenue:					
Sale of Equipment	\$10,757	\$37,000	\$35,200	\$111,000	\$111,000
Sale of Methane Gas	191,600	191,600	191,600	191,600	191,600
Miscellaneous Revenue	40,985	115,900	50,800	50,800	50,800
Subtotal	\$243,342	\$344,500	\$277,600	\$353,400	\$353,400
Total Revenue	\$9,521,084	\$7,334,754	\$11,055,653	\$8,700,340	\$8,700,340
Total Available	\$82,037,496	\$59,570,032	\$88,028,972	\$65,311,242	\$68,404,762
Expenditures:					
Personnel Services	\$1,495,210	\$1,843,372	\$1,782,916	\$2,004,667	\$2,024,714
Operating Expenses	2,620,169	2,263,730	2,982,519	2,733,809	2,733,809
Capital Equipment	338,993	370,500	384,546	869,300	869,300
Capital Projects	609,805	0	23,174,569	8,287,580	8,287,580
Subtotal Expenditures	\$5,064,177	\$4,477,602	\$28,324,550	\$13,895,356	\$13,915,403
COLA Reserve	0	0	0	20,047	0
Total Expenditures	\$5,064,177	\$4,477,602	\$28,324,550	\$13,915,403	\$13,915,403
Total Disbursements	\$5,064,177	\$4,477,602	\$28,324,550	\$13,915,403	\$13,915,403
Ending Balance	\$76,973,319	\$55,092,430	\$59,704,422	\$51,395,839	\$54,489,359

FUND 114 I-95 REFUSE DISPOSAL

FUND STATEMENT

Fund Type G10, Special Revenue Funds

Fund 114, I-95 Refuse Disposal

	FY 2000 Actual	FY 2001 Adopted Budget Plan	FY 2001 Revised Budget Plan	FY 2002 Advertised Budget Plan	FY 2002 Adopted Budget Plan
Reserves					
Landfill Closure Reserve ¹	\$17,355,835	\$0	\$11,381,100	\$0	\$0
Active Cell Closure Liability Reserve ²	8,000,000	8,000,000	8,000,000	10,000,000	\$10,000,000
Inactive Cell Closure Liability Reserve ³	8,000,000	8,000,000	8,000,000	8,000,000	8,000,000
Environmental Reserve ⁴	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Ashfill Construction Reserve ⁵	10,612,665	10,858,592	5,000,000	6,000,000	6,000,000
Construction-Miscellaneous Reserve ⁶	6,548,351	2,000,000	1,009,702	1,031,435	1,031,435
Post-Closure ⁷	21,000,000	21,000,000	21,000,000	21,000,000	21,000,000
PC Replacement ⁸	8,330	8,694	8,694	12,988	12,988
Operating and Maintenance Reserve	448,138	225,144	304,926	351,416	3,444,936
Unreserved Ending Balance	\$0	\$0	\$0	\$0	\$0
Disposal Rate/Ton ⁹	\$14.00	\$11.50	\$11.50	\$11.50	\$11.50

¹ Reserve for closure of the raw waste landfill.

² Reserve necessary for the closure of active disposal cells of the Ash Landfill, required by the State to be established in order for landfilling activities to progress.

³ Reserve necessary to perform closure activities on the completed cells of the Ash Landfill. Closure activities are required by the facilities permit, Environmental Protection Agency, and State regulations.

⁴ The Environmental Reserve has been established primarily for future Environmental Projects.

⁵ Reserve required for the construction of next phase of the ashfill liner system.

⁶ The Construction Reserve is established to provide funds to meet the requirements of current and future construction projects necessary for the operation of the I-95 Landfill, such as drainage and roads.

⁷ Post Closure Care is required for a 30 year-period after the landfill closes and is mandated by Federal and State regulations. Current funding of \$21,000,000 represents 55 percent of the estimated requirements of \$37,860,000 and is not sufficient to cover all identified costs. Additional funds will be set aside in future years.

⁸ The PC Replacement Reserve was established in FY 1995 in order to meet requirements for the timely replacement of obsolete computer equipment.

⁹ Effective July 1, 2000, the jurisdictional rate was reduced from \$14/ton to \$11.50/ton. The FY 2002 recommended rate remains at \$11.50/ton.

FUND 114 I-95 REFUSE DISPOSAL

FY 2002 Summary of Capital Projects

Fund: I-95 Refuse Disposal

Project #	Description	Total Project Estimate	FY 2000 Actual Expenditures	FY 2001 Revised Budget	FY 2002 Advertised Budget Plan	FY 2002 Adopted Budget Plan
186420	Repair/Maint/Wash Facility	\$1,026,645	\$0.00	\$60,251.00	\$0	\$0
186435	I-95 Landfill Basin 20		57,932.45	8,608,764.55	0	0
186440	I-95 Landfill Leachate Facility		0.00	2,917,342.00	0	0
186450	I-95 Landfill Rd. Construction		0.00	27,632.00	0	0
186455	Perimeter Fence Construction		0.00	58,690.50	0	0
186460	Area 7 Roadway Construction	258,000	0.00	241,165.00	0	0
186470	Paved Ditch Extension Areas		0.00	362,818.00	0	0
186600	Methane Gas Recovery		191,637.52	1,829,651.00	0	0
186650	I-95 Landfill Closure	57,088,579	360,235.05	9,068,254.48	8,287,580	8,287,580
Total		\$58,373,224	\$609,805.02	\$23,174,568.53	\$8,287,580	\$8,287,580

FUND 114

I-95 REFUSE DISPOSAL

186650	I-95 Landfill Closure
9850 Furnace Road	Mt. Vernon
<p>Project 186650: This project was created to meet all state and federal regulations regarding the closure of the I-95 Landfill to the deposit of municipal solid waste (raw refuse). This plan is in accordance with closure plans as presented to and approved by the Virginia Department of Waste Management. As closure requirements are identified, funding will be provided from the Landfill Closure Reserve. Phase I of closure capping activities was completed in 1994 while Phase II was completed in 2000. Phase III and Phase IV are undergoing redesign. The Closure Plan amendment was submitted to the Virginia Department of Environmental Quality in November 2000. Closure activity will proceed on either Phase III or Phase IV upon VDEQ approval of the Closure Plan.</p>	

	Total Project Estimate	Prior Expenditures	FY 2000 Expenditures	FY 2001 Revised Budget Plan	FY 2002 Advertised Budget Plan	FY 2002 Adopted Budget Plan	Future Years
Land Acquisition	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Design and Engineering	4,005,131	2,672,206	305,709	527,216	0	500,000	0
Construction	53,077,525	26,194,381	54,527	8,541,038	8,287,580	7,787,580	10,500,000
Other	5,923	5,923	0	0	0	0	0
Total	\$57,088,579	\$28,872,509	\$360,235	\$9,068,254	\$8,287,580	\$8,287,580	\$10,500,000

Source of Funding				
General Fund	General Obligation Bonds	Transfers from Other Funds	Other	Total Funding
\$0	\$0	\$0	\$8,287,580	\$8,287,580