

## SOLID WASTE

### Element Summary: Solid Waste

	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	TOTAL
Convenience Center Program	\$ 500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,500,000
North Wake Landfill	3,300,000	3,300,000	-	-	-	-	-	6,600,000
North Wake Landfill Master Plan	150,000	1,500,000	-	-	-	-	-	1,650,000
South Wake Landfill	1,100,000	-	-	-	-	-	-	1,100,000
<b>Total Uses</b>	<b>\$ 5,050,000</b>	<b>5,300,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>12,850,000</b>
Transfer In - Solid Waste Enterprise	\$ 1,750,000	2,000,000	500,000	500,000	500,000	500,000	500,000	6,250,000
Reserves - Landfill Closure	3,300,000	3,300,000	-	-	-	-	-	6,600,000
<b>Total Sources</b>	<b>\$ 5,050,000</b>	<b>5,300,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>12,850,000</b>
<b>New Operating Impact</b>	<b>\$ -</b>	<b>500,000</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>500,000</b>

### Seven-Year CIP Summary

The primary goal of the Solid Waste element is to facilitate the effective and efficient implementation of solid waste operating programs and policies by providing necessary public facilities in a timely manner and maintaining existing facilities in good condition. The Community Improvement Program includes investments in the County's disposal infrastructure in the form of improvements and remediation to existing facilities to meet demands of the general public. The FY08-14 capital plan provides nearly \$13 million for solid waste capital projects over the next seven years. The Solid Waste Enterprise Fund transfer in represents funds that come from the Landfill Tipping Fees.

### History/Background

The State of North Carolina passed legislation in 1989 that required local governments to submit comprehensive solid waste management plans. Subsequent amendments in 1996 required the first 10-year comprehensive solid waste management plans to be submitted to the State in 1997, with updates every three years. Wake County's plan was prepared and adopted in 1997 and updated in 2000, 2003 and 2006. The 10-year plan integrates all forms of waste management (waste reduction, reuse, recycling, collection, disposal and capital strategies) among all local governments within the county. In 2006, the Board of Commissioners approved an updated Ten-Year Comprehensive Plan for Solid Waste Management. All local governments within Wake County were invited and agreed to participate in the development of a joint Solid Waste Plan. The Wake County Solid Waste Advisory Committee (SWAC) oversaw and participated in the Plan's development and approved the Plan for adoption by the elected officials of each participating jurisdiction. The SWAC consists of representatives from each participating jurisdiction.

Within the Solid Waste Plan, Wake County commits to providing a landfill for use by the municipal partners. The North Wake Landfill has served in this capacity for a number of years. Now that it is reaching capacity, the South Wake Landfill has been approved and is in the design and construction phase of development.

## **SOLID WASTE**

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### **FY 2007 Accomplishments**

The County's North Wake landfill facility is expected to reach capacity in January of 2008. In order to provide additional landfill capacity, the County began development on the South Wake landfill during FY 2007 including the following work:

- Initiated design activities associated with the final cap and closure of the North Wake Landfill
- Continued coordination with various entities regarding the future re-development of the North Wake Landfill
- Coordination with Waste Industries at the South Wake Landfill for purposes of getting the facility in operation by the end of calendar year 2007
- Completed design work related to the Entrance Road and Scale House
- Completed grading work for the Entrance Road and Scale House and removed the required portion of a 1970's era unlined landfill that was in the way of the Entrance Road.
- Initiated final construction of the Entrance Road and Scale House in order to be completed by the end of calendar year 2007

### **Operating Impact**

During FY 2008, the new South Wake Landfill will open with the new contractual relationship with Waste Industries. For a short period of time, potentially both the North Wake Landfill and South Wake Landfill will be operating. These cost impacts will be borne by the Solid Waste Management Enterprise Fund, rather than the General Fund.

As a part of the North Wake Landfill Master Plan activities, the Solid Waste Enterprise Fund will allocate \$500,000 in FY09 to provide furnishings, equipment and exhibits for the Environmental Education Center.

## SOLID WASTE

### Convenience Center Program

The County currently operates two multi-material facilities (North Wake and Feltonsville) that accept various recyclable commodities from both residential and commercial customers. Material accepted includes corrugated cardboard, white goods (e.g., refrigerators, washers, dryers), lead-acid batteries, used motor oil and scrap tires. The North Wake facility also accepts electronics for recycling. Eleven convenience center sites are located throughout the County, where residents can bring household waste and materials for disposal or recycling. The sites have areas for recyclable commodities such as newspapers, cardboard, glass containers (green, brown, clear), aluminum containers, steel cans, scrap metal and plastics.

A comprehensive assessment of the locations and conditions of all existing convenience centers was completed during FY 2007. As part of this revised assessment, the services currently offered at the centers will be evaluated. Further, a multi-year plan for improving and integrating facilities and enhancing services will be prepared. Funding in the 2008-2014 CIP will be for the design and implementation of the improvements called for in the Integrated Facilities Plan.



**Convenience Center #4  
(Southeast Raleigh)**

#### Project Summary: Convenience Centers

Uses	Prior Funding	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Total 08-14
Engineering & Construction	50,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,500,000
<b>Total Uses</b>	<b>\$ 50,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>500,000</b>	<b>3,500,000</b>

#### Funding Sources

Transfer In - Solid Waste Enterprise	\$ 50,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	3,500,000
<b>New Operating Budget Impact</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>Total Operating Budget Impact</b>	<b>\$ -</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

# SOLID WASTE

## North Wake Landfill

In 1996, Wake County opened a lined landfill off Durant Road in north Raleigh. This landfill accepts municipal solid waste and is projected to reach capacity in January 2008. Closure of this landfill is occurring in two phases. Phase 1, consisting of 27 acres, was completed in FY 2005. Phase II (approximately 40 acres), will begin after the last amounts of waste are received in early 2008, depending upon usage. Final closure cost estimate is \$7,170,000 and will be funded by reserves that were accumulated as part of the tipping fee structure throughout the life of the landfill.

The North Wake Landfill property may lend itself to beneficial uses after closure. Wake County, in cooperation with a Citizens' Advisory Committee, has explored options for potential uses, such as incorporating greenways and open space uses as well as a school use. Land Planning consultants were retained to assist with development of a master plan for post-closure use of the property. The Master Plan was completed and presented to the Board of Commissioners in FY 2006. In FY07 partnerships for funding various elements of the plan were pursued and will continue in FY08.



Schematic of Proposed Use - North Wake Landfill

### Project Summary: North Wake Landfill

Uses	Prior Funding	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	Total 08-14
<b>N. Wake Landfill Master Plan</b>									
Planning & Design	\$ 300,000	-	-	-	-	-	-	-	-
<b>N. Wake Subtitle D Landfill Closure</b>									
Engineering & Construction - Phase II	570,000	3,300,000	3,300,000	-	-	-	-	-	<b>6,600,000</b>
<b>Total Uses</b>	<b>\$ 870,000</b>	<b>3,300,000</b>	<b>3,300,000</b>	-	-	-	-	-	<b>6,600,000</b>
<b>Funding Sources</b>									
Transfer In - Solid Waste Enterprise	\$ 300,000	-	-	-	-	-	-	-	-
Reserves - Landfill Closure	570,000	3,300,000	3,300,000	-	-	-	-	-	<b>6,600,000</b>
<b>Total Sources</b>	<b>\$ 870,000</b>	<b>3,300,000</b>	<b>3,300,000</b>	-	-	-	-	-	<b>6,600,000</b>
<b>New Operating Budget Impact</b>	<b>\$ -</b>	-	-	-	-	-	-	-	-
<b>Total Operating Budget Impact</b>	<b>\$ -</b>	-	-	-	-	-	-	-	-



