

Summary Sheet
Charleston Long-Range Solid Waste Plan
Net Present Value (NPV) Costs

	Bees Ferry/17 South no RRF after 2010	17 South no RRF after 2010	Out of County no RRF after 2010	Bees Ferry RRF through 2030	17 South RRF through 2030	Out of County RRF through 2030
<u>Resource Recovery Facility Proforma</u>						
NPV Total RRF Annual Costs	\$57,624,807	\$58,510,849	\$62,409,432	\$135,359,959	\$139,594,620	\$158,227,130
NPV Total Annual Debt Service	\$59,382,507	\$59,382,507	\$59,382,507	\$59,382,507	\$59,382,507	\$59,382,507
NPV Total RRF Annual Revenue	\$42,454,315	\$42,454,315	\$42,454,315	\$74,013,473	\$74,013,473	\$74,013,473
NPV RRF Net Annual Cost	\$74,552,999	\$75,439,040	\$79,337,623	\$120,728,993	\$124,963,654	\$143,596,163
<u>Landfill Proforma</u>						
NPV Total Landfill Annual Costs	\$99,231,084	\$92,563,383	\$120,412,198	\$91,718,469	\$82,910,093	\$78,136,179
NPV Total Annual Debt Service	\$14,692,175	\$14,692,175	\$14,692,175	\$14,692,175	\$14,692,175	\$14,692,175
NPV Total Landfill Annual Revenue	\$27,692,910	\$27,692,910	\$27,692,910	\$15,229,369	\$27,692,910	\$27,692,910
NPV Landfill Net Annual Cost	\$86,230,349	\$79,562,648	\$107,411,463	\$91,181,275	\$69,909,358	\$65,135,444
<u>Recycling Proforma</u>						
NPV Total Recycling Annual Costs	\$57,483,852	\$57,483,852	\$57,483,852	\$57,483,852	\$57,483,852	\$57,483,852
NPV Total Annual Debt Service	\$3,578,864	\$3,578,864	\$3,578,864	\$3,578,864	\$3,578,864	\$3,578,864
NPV Total Recycling Annual Revenue	\$19,071,640	\$19,071,640	\$19,071,640	\$19,071,640	\$19,071,640	\$19,071,640
NPV Recycling Net Annual Cost	\$41,991,075	\$41,991,075	\$41,991,075	\$41,991,075	\$41,991,075	\$41,991,075
<u>Transfer Station Proforma</u>						
NPV Total Annual Transfer Station Costs	\$45,003,580	\$50,066,922	\$68,243,562	\$0	\$24,993,155	\$33,279,852
NPV Total Annual Debt Service	\$0	\$0	\$0	\$0	\$0	\$0
NPV Total Transfer Station Annual Revenue	\$0	\$0	\$0	\$0	\$0	\$0
NPV Transfer Station Net Annual Cost	\$45,003,580	\$50,066,922	\$68,243,562	\$0	\$24,993,155	\$33,279,852
<u>Yard Waste Composting Proforma</u>						
NPV Total Annual Composting Costs	\$16,120,821	\$16,120,821	\$16,120,821	\$16,120,821	\$16,120,821	\$16,120,821
NPV Total Annual Debt Service	\$565,083	\$565,083	\$565,083	\$565,083	\$565,083	\$565,083
NPV Total Yard Waste Composting Annual Revenues	\$923,605	\$923,605	\$923,605	\$923,605	\$923,605	\$923,605
NPV Yard Waste Composting Net Annual Cost	\$15,762,299	\$15,762,299	\$15,762,299	\$15,762,299	\$15,762,299	\$15,762,299
<u>Other System Components Proforma</u>						
NPV Net Annual Cost for Solid Waste Administration	\$32,985,835	\$32,985,835	\$32,985,835	\$32,985,835	\$32,985,835	\$32,985,835
NPV Net Annual Cost for Rural Convenience Centers	\$31,227,931	\$31,227,931	\$31,227,931	\$31,227,931	\$31,227,931	\$31,227,931
NPV Net Annual Cost for Household Hazardous Waste	\$4,571,756	\$4,571,756	\$4,571,756	\$4,571,756	\$4,571,756	\$4,571,756
NPV Net Annual Cost for Litter Program	\$2,250,680	\$2,250,680	\$2,250,680	\$2,250,680	\$2,250,680	\$2,250,680
NPV Other System Components Net Annual Cost	\$71,036,203	\$71,036,203	\$71,036,203	\$71,036,203	\$71,036,203	\$71,036,203
<u>TOTAL SOLID WASTE SYSTEM</u>						
NPV Total Net Annual Cost	\$334,576,505	\$333,858,188	\$383,782,225	\$340,699,845	\$348,655,745	\$370,801,036
Ranking of Alternatives by Cost	2	1	6	3	4	5
Difference from Lowest Cost Alternative (%)	0.2%	0.0%	15.0%	2.0%	4.4%	11.1%