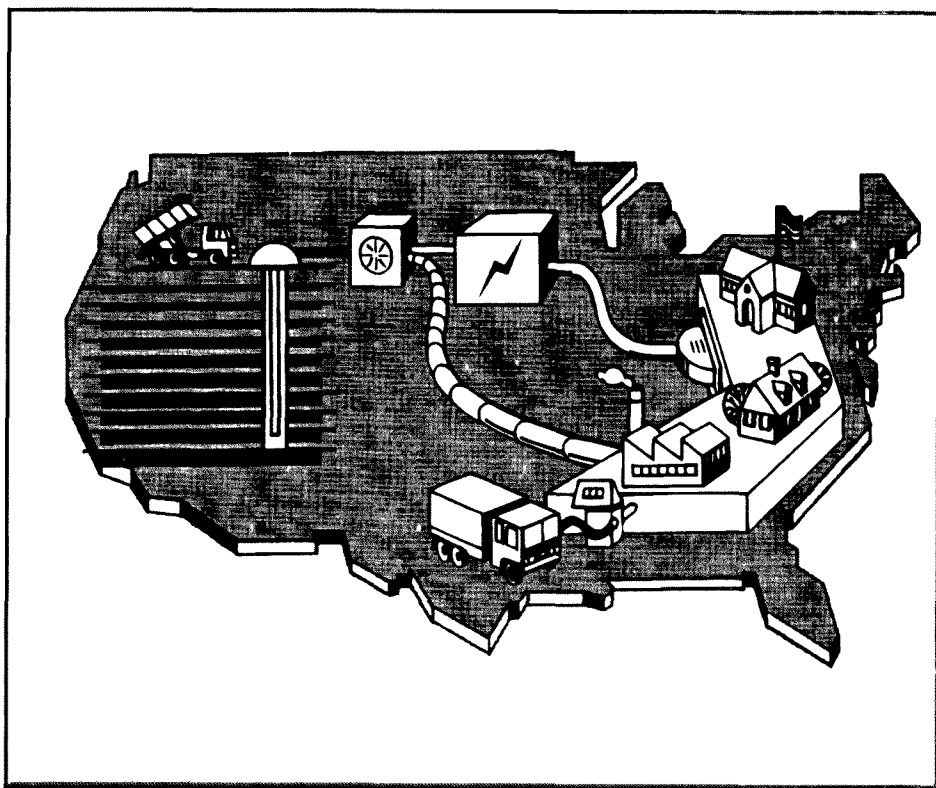




Landfill Gas-to-Energy Project Opportunities

Landfill Profiles for the State of North Carolina



EPA Landfill Methane Outreach Program



The EPA Landfill Methane Outreach Program, a key component of the United State's *Climate Change Action Plan*, encourages the use of landfill gas (LFG) as an energy resource. EPA assists utilities, municipal and private landfill owners and operators, tribes, and state agencies in reducing methane emissions from landfills through the development of profitable landfill energy recovery projects. Methane captured from landfills can be transformed into a cost-effective fuel source for electricity, heat, boiler and vehicular fuel, or sale to a pipeline. EPA estimates there are approximately 200 landfill methane recovery projects in the U.S. and that up to 750 landfills could install economically viable landfill energy projects.

The Landfill Methane Outreach Program includes five important components: the State Ally, Energy Ally, Industry Ally, Community Partner, and Endorser programs. EPA establishes separate alliances with state agencies, energy providers (including investor-owned, municipal and other public power utilities and cooperatives), key trade and public sector associations, members of the landfill gas development industry (including developers, engineers, equipment vendors, and others) and local communities, municipalities and landfill owner/operators through a Memorandum of Understanding (MOU). By signing the MOU, each Ally/Partner acknowledges a shared commitment to the promotion of landfill gas-to-energy recovery at solid waste landfills, recognizes that the widespread use of landfill gas will reduce emissions of methane and other gases, and commits to undertake activities to enhance development of this resource. In return, EPA agrees to provide landfill gas-to-energy project assistance and public recognition of the Allies' and Partners' participation in the program.

Introduction

Since 1994 the U.S. EPA's Landfill Methane Outreach Program (LMOP) has participated in an ongoing effort to gather information on Municipal Solid Waste landfills (MSW). A key component of the LMOP is to provide MSW landfill owners and operators, project developers, utilities, and other potential project participants with information on MSW landfills that may offer attractive energy development opportunities. This document presents state specific landfill information, hereinafter referred to as the landfill profiles. These profiles are useful to evaluate the potential for developing landfill gas-to-energy projects (LFGTE). EPA assembled this information from state and local sources as well as various national solid waste publications, landfill owners and operators, and project developers.

The EPA has prepared a separate document to describe the methodology used to develop the state-specific landfill profiles and estimate the benefits of using LFGTE as an energy source. The document, *Landfill Gas-to-Energy Project Opportunities, Background Information on Landfill Profiles*, contains background information on gas collection and use, describes the data fields according to the five sections listed on the landfill profiles, and where applicable, illustrates calculations and default values used to derive estimates. EPA strongly recommends that users read the document prior to using the landfill profiles. Users can obtain the document by calling the LMOP hotline at 1-888-STAR-YES.

Data Sources

- EPA-ORD Landfill Gas Utilization-Survey (Thomeloe, 1997)
- Directory and Atlas of Solid Waste Disposal Facilities (SWA, 1994)
- Implementation Guide for Landfill Gas Recovery Projects in the Northeast (SCS, 1994)
- Landfill Gas-to-Energy 1994-1995 Activity Report (SWT, 1994)
- Methane Recovery from Landfill Yearbook (GAA, 1994)
- Project developers, landfill owners, and operators
- State and local records
- Survey of Landfill Gas Generation Potential (EPRI, 1992)
- U.S. Landfill Directory (SWANA, 1992)

Landfill Classification

To facilitate the use of available landfill information, EPA has categorized the landfills into five categories: Current Project,¹ Candidate Project, Shutdown, Other, and Unknown waste-in-place (WIP). These categories are based on the status of the landfill's LFGTE project(s) and WIP. The generation of methane is a function of many factors, the most critical being the amount of waste-in-place and the number of years the waste has been in the landfill. Peak methane generation occurs soon after closure; therefore, the longer the landfill has been closed, the less attractive it becomes for methane recovery. Based on the general timing of peak methane generation, EPA assumes that landfills that ceased accepting waste prior to 1993 have a low probability of generating enough methane to make a gas recovery project economical. Consequently, landfills need to be operating in 1993 to be considered as having a Candidate Project.

Landfill Categorizes

Current Project:

- Landfill with operational LFGTE project or landfill with LFGTE project under construction.

Candidate Project:

- Landfill with a potential or planned LFGTE utilization project; or
- Landfill is currently operating or closed after 1993; and has more than 1,000,000 tons of municipal solid waste-in-place.²

Shutdown:

- Landfill with shutdown LFGTE project.

Other:

- Landfill has less than 1,000,000 tons of municipal solid waste-in-place with no current or planned LFGTE project.

Unknown WIP:

- Landfill with insufficient data to determine the waste-in-place.

State Summary

State-specific landfill profile information is summarized in three exhibits. Exhibit 1 presents a summary of the state-specific potential for LFG utilization energy by landfill category. Exhibit 2 summarizes the emissions avoided by fossil fuel displacement for electricity generation and direct use projects. Exhibit 3 presents an index of the state-specific MSW landfills, referenced by category, landfill name and general characteristics.

¹ Current projects illustrate the wide range of successful project development options.

² By modeling the relationship between WIP and methane generation, a cut-off of 1,000,000 tons of WIP was established; landfills having at least 1,000,000 tons of WIP are considered candidate landfills.



Exhibit 1: North Carolina MSW Landfill Summary

Category	No. of Landfills	Est. Capacity Potential		Est. CH4 Generation (mmscf/d)	Methane Reduction (tons/yr)		CO2 Equivalent of CH4 Reduction (tons/yr)	
		Electricity (MW)	Gas Capacity (mmBtu/hr)		Potential	Current	Potential	Current
Current	10	41	414	13	76,487	37,388	1,606,225	785,142
Candidate	36	95	952	30	176,063	0	3,697,313	0
Shutdown	1	0	1	0	102	0	2,146	0
Other	74	51	504	16	93,186	0	1,956,912	0
Unknown WIP	1							
Total	122	187	1,870	60	345,838	37,388	7,262,596	785,142

Exhibit 2: Potential North Carolina Emissions Avoided by Fossil Fuel Displacement

Category	Electricity Generation Project						Direct Use Project					
	CO2 (tons/yr)			SO2 (tons/yr)			CO2 (tons/yr)			SO2 (tons/yr)		
	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas	Coal	Oil	Natural Gas
Current	326,760	268,190	180,335	2,065	1,726	0	230,330	189,045	127,116	2,096	1,102	1
Candidate	750,601	616,060	414,247	4,744	3,966	0	530,188	435,154	292,604	4,824	2,536	3
Shutdown	789	648	436	5	4	0	308	253	170	3	2	0
Other	398,585	327,139	219,974	2,520	2,106	0	280,619	230,320	154,870	2,554	1,342	1
Unknown WIP												
Total	1,476,736	1,212,037	814,991	9,334	7,802	0	1,041,445	854,771	574,759	9,476	4,980	6

Exhibit 3: Index of Landfills in North Carolina

Category	Landfill Name	WIP			Landfill Operating in 1998	LFG Collected	LFG Utilization Project	Status of LFGTE Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons				
Current	Blackburn LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction
Current	Buncombe County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	City of Greensboro LF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	City of Winston-Salem LF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	CMS Landfill V	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Construction
Current	Cumberland County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	Henderson County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	Pitt County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	Wake County Landfill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Current	Wilder's Grove Landfill	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Operational
Candidate	Alamance County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Avery County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Brunswick County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Cabarrus County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Caldwell County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	City of Albemarle LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	City of Durham LF	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	City of High Point LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Cleveland County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Columbus County, ARS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Craven County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Edgecombe County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Gaston County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Harnett County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	High Point-Guilford County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Iredell County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Johnston County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Lee County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Lenoir County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Mecklenburg County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Nash County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	New Hanover County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	Newton LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Orange Regional LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Piedmont SLF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Candidate	Randolph County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Robeson County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Rockingham County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Sampson County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown

Exhibit 3: Index of Landfills in North Carolina

Category	Landfill Name	WIP			Landfill Operating in 1998	LFG Collected	LFG Utilization Project	Status of LFGTE Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons				
Candidate	Surry County LF 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Union County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Potential
Candidate	US Marine Corps Camp Lejeune	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Wake County LF 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Wayne County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Wilson County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Candidate	Yancey/Mitchell County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Planned
Shutdown	Rowland LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Shutdown
Other	Alexander County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Alleghany County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Anderson Creek LF Harnett County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Anson County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Ashe County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Austin Quarter SWM Facility	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Beaufort County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Bertie County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Bladen County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Burke County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Canton LF-Haywood County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Carteret County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Caswell County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Chatham County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Cherokee County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Clay County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Cliffside South Rutherford County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	CRSWMA-Interim Regional LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Currituck County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Davidson County LF	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Davie County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Duplin County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	East Carolina Regional LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	East Lake LF-Dare County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Franklin County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Graham County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Granville County 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Granville County LF 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Greene County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Halifax County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Haywood County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown

Exhibit 3: Index of Landfills in North Carolina

Category	Landfill Name	WIP			Landfill Operating in 1998	LFG Collected	LFG Utilization Project	Status of LFGTE Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons				
Other	Haywood County White Oak LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Hertford County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Highlands LF-Macon County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Hoke County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Iredell County SLF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Jackson County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Jones County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Lincoln County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Macon County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Macon County LF Franklin	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Madison County LF 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Madison County LF 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	McDowell County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Montgomery County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Moore County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Northampton County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Onslow County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Pamlico County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Pasquotank County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Pender County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Perquimans Chowan Gates Regional L	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Polk County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Richmond County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Roaring River LF-Wilkes County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Rowan County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Roxboro LF-Person County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Rutherford County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Scotland County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Sorrells SLF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Stokes County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Surry County LF 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Swain County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Thomasville LF-Davidson County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Transylvania County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Transylvania County SLF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	US Army Fort Bragg	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Vance County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Wake County LF 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Warren County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown

Exhibit 3: Index of Landfills in North Carolina

Category	Landfill Name	WIP			Landfill Operating in 1998	LFG Collected	LFG Utilization Project	Status of LFGTE Project
		<2.5 million tons	2.5 to 4 million tons	>4 million tons				
Other	Washington County LF	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Western Carolina University	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Wilkes County LF 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Other	Wilkes County LF 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown
Unknown WIP	York Road Landfill	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Unknown

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Alamance County	Annual Acceptance Rate (tons):	108,476
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:	Sweepsonville	Design Capacity (tons):	
City:	Burlington	Acres Currently Landfilled (acres):	
County:	Alamance	Average Depth (feet):	
State:	NC	1998 Waste-in-Place (tons):	2,278,000
Year Open:	1971	1998 Waste-in-Place (tons):	2,278,000
Year Closed:	1994		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.00

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	31
Current Capacity:		
Planned Capacity:		

Utilities in County: Duke Power Co; Nantahala Power & Light Co; Piedmont Electric Member Corp; Randolph Electric M

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	5,785		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	121,491		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	24,468	155	17,422	159
Fuel Oil:	20,082	129	14,299	83
Natural Gas:	13,503	0	9,615	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Robert Mace	Alvin Cagle
Mailing Address:	Route 5, Box 267	209 North Graham Hopedale
Phone Number:	919-578-4200	919-578-2769
Fax Number:		

* Italicized indicates values estimated by EPA.

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Avery County	Annual Acceptance Rate (tons):	3,560
Landfill Owner Type:		Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Spruce Pine	Acres Currently Landfilled (acres):	
County:	Avery	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	182,875
Year Open:	1972	1998 Waste-in-Place (tons):	182,875
Year Closed:	1993		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.06
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Planned
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	0	2
Current Capacity:		
Planned Capacity:		

Utilities in County:	Mountain Electric Coop Inc; Tennessee Valley Authority
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		374		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		7,848		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	1,579	10	1,125	10
<i>Fuel Oil:</i>	1,296	8	924	5
<i>Natural Gas:</i>	871	0	621	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Randall Fletcher	Dallas Cox
Mailing Address:	PO Box 54	PO Box 640
Phone Number:	704-733-5186	704-765-8201
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Catawba County	Annual Acceptance Rate (tons):	144,450
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Catawba County LF	Design Capacity (tons):	
City:	Newton	Acres Currently Landfilled (acres):	
County:	Catawba	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,168,232
Year Open:	1981	1998 Waste-in-Place (tons):	2,439,261
Year Closed:	2007		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.04
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Construction
Utilization System Type:	Reciprocating Engine
Utilization System Start Year:	1999
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Duke Power

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	33
Current Capacity:		
Planned Capacity:	4.8	

Utilities in County: Crescent Elec Mem Corp; Duke Power Co; Maiden Electric Utility; Newton Electric Dept; Rutherford

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):		6,024		0
CO2 Equivalent of CH4 Reduction (tons/yr):		126,500		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	26,046	165	18,140	165
Fuel Oil:	21,378	138	14,888	87
Natural Gas:	14,375	0	10,011	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Dick Wyatt, City Engineer	Tommy London
Mailing Address:	PO Box 389	PO Box 389
Phone Number:	704-465-8263	704-465-8263
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	76,005
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Supply	Acres Currently Landfilled (acres):	
County:	Brunswick	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,063,573
Year Open:	1983	1998 Waste-in-Place (tons):	1,215,512
Year Closed:	1999		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.73

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Brunswick Electric Member Corp; Carolina Power & Light Company; Southeastern Power Admin; So

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	4,214		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	88,496		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	18,153	115	12,690	116
<i>Fuel Oil:</i>	14,899	96	10,416	61
<i>Natural Gas:</i>	10,019	0	7,004	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	William Yeltin	Darry Somerset
Mailing Address:	PO Box 249	PO Box 249 PO Box 249
Phone Number:	919-253-4331	919-253-4347
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	96,753
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Asheville	Acres Currently Landfilled (acres):	80
County:	Buncombe	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	3,446,544
Year Open:	1971	1998 Waste-in-Place (tons):	3,877,362
Year Closed:	1997		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.41
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	1.4
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Reciprocating Engine
Utilization System Start Year:	1998
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Metropolitan Sewer District POTW

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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<i>Estimated Potential Capacity:</i>	4	44
Current Capacity:		29
Planned Capacity:		

Utilities in County:	Carolina Power & Light Company; French Broad Elec Member Corp; Haywood Electric Member Cor
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	8,150		5,396	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	171,158		113,320	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	34,728	220	24,544	223
<i>Fuel Oil:</i>	28,503	184	20,145	117
<i>Natural Gas:</i>	19,166	0	13,546	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Bob Hunter	Marvin Waddy
Mailing Address:	30 Valley Street	County Courthouse
Phone Number:	704-255-5066	704-255-5066
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	BFI	Annual Acceptance Rate (tons):	536,527
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Charlotte Motor Speedway LF	Design Capacity (tons):	
City:	Concord	Acres Currently Landfilled (acres):	
County:	Cabarrus	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,244,231
Year Open:	1992	1998 Waste-in-Place (tons):	3,141,924
Year Closed:			

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.22

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Construction

Utilization System Type: Reciprocating Engine

Utilization System Start Year: 1999

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s): City of Concord

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	4	38
Current Capacity:		
Planned Capacity:	1.0	

Utilities in County: Concord, City of; Crescent Elec Mem Corp; Duke Power Co; Union Electric Membership Corp

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	7,063		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	148,321		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	29,993	190	21,269	194
Fuel Oil:	24,617	159	17,457	102
Natural Gas:	16,553	0	11,738	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Harold Watson	Harold Watson
Mailing Address:	5105 Morehead Drive	5105 Morehead Drive
Phone Number:	704-782-2004	704-782-2004
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Cabarrus County	Annual Acceptance Rate (tons):	61,248
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Concord	Acres Currently Landfilled (acres):	
County:	Cabarrus	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,368,822
Year Open:	1974	1998 Waste-in-Place (tons):	1,487,850
Year Closed:	2008		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.80

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	25
Current Capacity:		
Planned Capacity:		

Utilities in County: Concord, City of; Crescent Elec Mem Corp; Duke Power Co; Union Electric Membership Corp

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,617		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	96,955		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	19,732	125	13,903	127
Fuel Oil:	16,195	104	11,411	67
Natural Gas:	10,890	0	7,673	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Bob Farris	Bob Farris
Mailing Address:	715 Cabarrus Avenue	715 Cabarrus Avenue
Phone Number:	704-782-3811	704-782-3811
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Caldwell County	Annual Acceptance Rate (tons):	68,030
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Hudson	Acres Currently Landfilled (acres):	
County:	Caldwell	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,214,795
Year Open:	1975	1998 Waste-in-Place (tons):	1,214,796
Year Closed:	1994		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.73

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Blue Ridge Elec Member Corp; Carolina Power & Light Company; Duke Power Co; Granite Falls El

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	4,213		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	88,475		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	18,153	115	12,687	115
<i>Fuel Oil:</i>	14,899	96	10,413	61
<i>Natural Gas:</i>	10,019	0	7,002	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Floyd Ingle	Floyd Ingle
Mailing Address:	PO Box 2200	PO Box 2200
Phone Number:	704-728-2866	704-728-2866
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of Albemarle	Annual Acceptance Rate (tons):	60,429
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:	Albemarle	Acres Currently Landfilled (acres):	
County:	Stanly	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,523,736
Year Open:	1973	1998 Waste-in-Place (tons):	1,650,714
Year Closed:	2007		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.84
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	26
Current Capacity:		
Planned Capacity:		

Utilities in County: Albemarle Elec Dis Syst; Duke Power Co; Pee Dee Electric Member Corp; Union Electric Membersh

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,858		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	102,012		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	20,521	130	14,628	133
Fuel Oil:	16,843	108	12,006	70
Natural Gas:	11,325	0	8,073	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	James Coble, Public Works Director	James Coble
Mailing Address:	PO Box 190	PO Box 190
Phone Number:	704-982-0131	704-982-0131
Fax Number:		

* *Italicized indicates values estimated by EPA.*

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	206,575
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Durham Township LF	Design Capacity (tons):	
City:	Durham City	Acres Currently Landfilled (acres):	
County:	Durham	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	4,957,416
Year Open:	1973	1998 Waste-in-Place (tons):	4,957,416
Year Closed:	1996		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.69

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	5	53
Current Capacity:		
Planned Capacity:		

Utilities in County: Duke Power Co; Piedmont Electric Member Corp; Southeastern Power Admin; Wake Electric Memb

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	9,748		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	204,700		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	41,832	264	29,354	267
Fuel Oil:	34,334	221	24,092	140
Natural Gas:	23,086	0	16,200	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Nancy Newell	Tom Bastable
Mailing Address:	101 City Hall Plaza	101 City Hall Plaza
Phone Number:	919-560-4185	919-560-4185
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of Greensboro	Annual Acceptance Rate (tons):	285,068
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Greensboro	Acres Currently Landfilled (acres):	272
County:	Guilford	Average Depth (feet):	85
State:	NC	Waste-in-Place (tons):	7,616,175
Year Open:	1972	1998 Waste-in-Place (tons):	8,225,469
Year Closed:	2013		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	2.52
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	Yes

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Medium Btu
Utilization System Start Year:	1997
Electric Utility Provider(s):	Duke Energy
Natural Gas Provider(s):	Piedmont Natural Gas
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	8	79
Current Capacity:		
Planned Capacity:		

Utilities in County: Davidson Electric Member Corp; Duke Power Co; High Point Electric Dept; Southeastern Power Adm

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	14,580		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	306,188		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	62,353	394	43,907	400
Fuel Oil:	51,176	329	36,037	210
Natural Gas:	34,412	0	24,232	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Frank Coggins	Frank Coggins
Mailing Address:	PO Box 3136	2503 White Street
Phone Number:	910-373-2035	336-375-2244
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of High Point	Annual Acceptance Rate (tons):	83,751
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	High Point	Acres Currently Landfilled (acres):	
County:	Guilford	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,256,265
Year Open:	1980	1998 Waste-in-Place (tons):	1,256,265
Year Closed:	1994		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.74

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Davidson Electric Member Corp; Duke Power Co; High Point Electric Dept; Southeastern Power Adm

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,274		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	89,762		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	18,153	115	12,872	117
Fuel Oil:	14,899	96	10,565	62
Natural Gas:	10,019	0	7,104	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Perry Kairis	John Butcher
Mailing Address:	PO Box 230	PO Box 230
Phone Number:	910-883-3215	919-883-3433
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	258,632
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Winston-Salem	Acres Currently Landfilled (acres):	
County:	Forsyth	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	5,258,571
Year Open:	1974	1998 Waste-in-Place (tons):	5,715,838
Year Closed:	1999		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.88
LFG Collection System Status:	Operational
Current LFG Collected (mmscf/d):	2.8
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Gas Turbine
Utilization System Start Year:	1996
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	6	59
Current Capacity:	4.3	58
Planned Capacity:		

Utilities in County:	Davidson Electric Member Corp; Duke Power Co; Surry-Yadkin Elec Member Corp; Tennessee Vall
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	10,869		10,792	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	228,253		226,638	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	46,567	294	32,731	298
<i>Fuel Oil:</i>	38,220	246	26,864	157
<i>Natural Gas:</i>	25,700	0	18,064	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator	
Contact Name:	Dan Miles	Contact Name:	Dan Miles
Mailing Address:	PO Box 2511	Mailing Address:	PO Box 2511
Phone Number:	910-727-8418	Phone Number:	919-727-8418
Fax Number:		Fax Number:	

* *Italicized indicates values estimated by EPA.*

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Cleveland County LF				Landfill Category: Candidate
A. GENERAL LANDFILL INFORMATION				
Landfill Owner:	Cleveland County	Annual Acceptance Rate (tons):	65,879	
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993	
Alternative Landfill Name:		Design Capacity (tons):		
City:	Shelby	Acres Currently Landfilled (acres):		
County:	Cleveland	Average Depth (feet):		
State:	NC	Waste-in-Place (tons):	1,431,213	
Year Open:	1976	1998 Waste-in-Place (tons):	1,567,519	
Year Closed:	2017			
B. LANDFILL GAS COLLECTION				
Estimated Methane Generation (mmscf/d):		0.82		
LFG Collection System Status:				
Current LFG Collected (mmscf/d):				
Collection and Treatment System Required Under NSPS/EG:		No		
C. LANDFILL GAS UTILIZATION				
Current Utilization:				
Utilization System Status:	Unknown			
Utilization System Type:	Unknown			
Utilization System Start Year:				
Electric Utility Provider(s):				
Natural Gas Provider(s):				
Energy Purchaser(s):				
Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)	
Estimated Potential Capacity:	3		26	
Current Capacity:				
Planned Capacity:				
Utilities in County: Broad River Elec Coop Inc; Duke Power Co; Kings Mountain Muni Elec System; Rutherford Elec Me				
D. ENVIROMENTAL BENEFITS OF UTILIZATION				
	<i>Potential</i>		<i>Current</i>	
Methane Reduction (tons/yr):	4,735		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	99,429		0	
Emissions Avoided by Fossil Fuel Displacement:	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
Coal:	20,521	130	14,258	130
Fuel Oil:	16,843	108	11,702	68
Natural Gas:	11,325	0	7,869	0
E. CONTACT INFORMATION				
Landfill Owner			Landfill Operator	
Contact Name:	Marty Allen		James McNeilly	
Mailing Address:	PO Box 1210		PO Box 1210	
Phone Number:	704-482-9061		704-482-9061	
Fax Number:				

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Chambers Waste Systems	Annual Acceptance Rate (tons):	88,447
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Columbus County LF	Design Capacity (tons):	
City:	Whiteville	Acres Currently Landfilled (acres):	
County:	Columbus	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,285,344
Year Open:	1973	1998 Waste-in-Place (tons):	1,285,344
Year Closed:	1996		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.75

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Brunswick Electric Member Corp; Carolina Power & Light Company; Four County Elec Member Cor

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,317		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	90,665		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	18,153	115	13,001	118
Fuel Oil:	14,899	96	10,671	62
Natural Gas:	10,019	0	7,175	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Wade Jernigan	Wade Jernigan
Mailing Address:	PO Box 297	PO Box 1326
Phone Number:	910-642-6099	919-642-6099
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Craven County	Annual Acceptance Rate (tons):	19,659
Landfill Owner Type:		Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Craven	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	985,028
Year Open:	1982	1998 Waste-in-Place (tons):	1,116,365
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.70

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	22
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Carteret-Craven El Member Corp; Jones-Onslow Elec Member C

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,068		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	85,418		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
Coal:	17,364	110	12,249	112
Fuel Oil:	14,252	92	10,053	59
Natural Gas:	9,583	0	6,760	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Kenneth Chase	George Sawyer
Mailing Address:	PO Box 1425 Administration Building	PO Box 1425 Administration Building
Phone Number:	919-633-6822	919-636-6600
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	178,480
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Fayetteville	Acres Currently Landfilled (acres):	
County:	Cumberland	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,948,331
Year Open:	1980	1998 Waste-in-Place (tons):	3,295,195
Year Closed:	2032		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.26
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	1.8
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Boiler
Utilization System Start Year:	1997
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Cargill Incorporated

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	4	39
Current Capacity:		38
Planned Capacity:		

Utilities in County:	Carolina Power & Light Company; Fayetteville Pub Wks Comm; Lumbee River Elec Member Corp; S
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	7,290		6,938	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	153,080		145,696	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	30,782	195	21,952	200
<i>Fuel Oil:</i>	25,264	163	18,017	105
<i>Natural Gas:</i>	16,988	0	12,115	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Larry Carter	Larry Carter
Mailing Address:	698 Ann Street	698 Ann Street
Phone Number:	910-483-4897	919-483-4897
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Edgecombe County	Annual Acceptance Rate (tons):	73,759
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Tarboro	Acres Currently Landfilled (acres):	
County:	Edgecombe	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,870,499
Year Open:	1971	1998 Waste-in-Place (tons):	2,014,384
Year Closed:	2007		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.93

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	29
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Edgecombe-Martin County EMC; Macclesfield Elec Dept; Pineto

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	5,396		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	113,306		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	22,889	145	16,248	148
<i>Fuel Oil:</i>	18,786	121	13,335	78
<i>Natural Gas:</i>	12,632	0	8,967	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Larry Hathaway	Larry Hathaway
Mailing Address:	201 St. Andrews Street	201 St. Andrews Street
Phone Number:	919-827-4253	919-827-4253
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Gaston County	Annual Acceptance Rate (tons):	130,097
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Hardin Site	Design Capacity (tons):	
City:	Dallas	Acres Currently Landfilled (acres):	
County:	Gaston	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,634,226
Year Open:	1986	1998 Waste-in-Place (tons):	1,931,358
Year Closed:	2004		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.91
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	29
Current Capacity:		
Planned Capacity:		

Utilities in County: Cherryville Electric Dept; Crescent Elec Mem Corp; Dallas Electric Dept; Duke Power Co; Gastonia

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	5,273		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	110,727		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	22,100	140	15,878	145
Fuel Oil:	18,139	117	13,032	76
Natural Gas:	12,197	0	8,763	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	William Beasley	William Beasley
Mailing Address:	PO Box 1578	PO Box 1578
Phone Number:	704-866-3100	704-866-3100
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Harnett County	Annual Acceptance Rate (tons):	55,254
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Harnett County Dunn/Erwin LF	Design Capacity (tons):	
City:	Dunn/Erwin	Acres Currently Landfilled (acres):	
County:	Harnett	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,154,018
Year Open:	1976	1998 Waste-in-Place (tons):	1,263,926
Year Closed:	2017		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.74
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:	
Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Central Electric Member Corp; South River Elec Member Corp; S

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,286		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	90,000		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	18,153	115	12,906	117
Fuel Oil:	14,899	96	10,593	62
Natural Gas:	10,019	0	7,123	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Jerry Blanchard	Jerry Blanchard
Mailing Address:	Harnett County Office Building	Harnett County Office Building
Phone Number:	910-893-7536	919-893-7536
Fax Number:		

* Italicized indicates values estimated by EPA.

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Henderson County	Annual Acceptance Rate (tons):	73,008
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:	Henderson County, Stony Mountain SLF	Design Capacity (tons):	
City:	Hendersonville	Acres Currently Landfilled (acres):	60
County:	Henderson	Average Depth (feet):	100
State:	NC	1998 Waste-in-Place (tons):	2,100,000
Year Open:	1965	1998 Waste-in-Place (tons):	2,100,000
Year Closed:	1997		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.90
LFG Collection System Status:	Operational
Current LFG Collected (mmscf/d):	0.3
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Boiler
Utilization System Start Year:	1997
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Seneca Foods

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	3	28
Current Capacity:		6
Planned Capacity:		

Utilities in County:	Duke Power Co; Southeastern Power Admin
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		5,231		1,156
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		109,851		24,282
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	22,100	140	15,752	143
<i>Fuel Oil:</i>	18,139	117	12,929	75
<i>Natural Gas:</i>	12,197	0	8,694	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Gary Corn	Elden Owen
Mailing Address:	802 Stony Mountain Road	802 Stony Mountain Road
Phone Number:	704-697-4505	704-697-4715
Fax Number:		

A. GENERAL LANDFILL INFORMATION

Landfill Owner:	City of High Point	Annual Acceptance Rate (tons):	19,335
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	High Point LF-Guilford County	Design Capacity (tons):	
City:	High Point	Acres Currently Landfilled (acres):	150
County:	Guilford	Average Depth (feet):	75
State:	NC	1994 Waste-in-Place (tons):	2,640,000
Year Open:	1974	1998 Waste-in-Place (tons):	2,640,000
Year Closed:	1993		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.09

LFG Collection System Status: Operational

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Planned

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	34
Current Capacity:		
Planned Capacity:		

Utilities in County: Davidson Electric Member Corp; Duke Power Co; High Point Electric Dept; Southeastern Power Adm

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	6,321		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	132,733		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	26,835	170	19,034	173
Fuel Oil:	22,025	142	15,622	91
Natural Gas:	14,810	0	10,505	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:		John Butcher
Mailing Address:	PO Box 230	5873 Riverdale Road
Phone Number:		919-885-0914
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Iredell County	Annual Acceptance Rate (tons):	31,227
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Statesville	Acres Currently Landfilled (acres):	
County:	Iredell	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,280,900
Year Open:	1975	1998 Waste-in-Place (tons):	2,488,255
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.05

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Planned

Utilization System Type: Reciprocating Engine

Utilization System Start Year: 1997

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s): Accumia

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	33
Current Capacity:		
Planned Capacity:		

Utilities in County: Crescent Elec Mem Corp; Duke Power Co; Statesville Light Dept

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	6,096		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	128,020		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	26,046	165	18,358	167
<i>Fuel Oil:</i>	21,378	138	15,067	88
<i>Natural Gas:</i>	14,375	0	10,132	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Joel Mashburn	
Mailing Address:	PO Box 788	County Office Building
Phone Number:	704-872-9501	704-872-9501
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Johnston County	Annual Acceptance Rate (tons):	74,151
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Selma	Acres Currently Landfilled (acres):	
County:	Johnston	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,708,932
Year Open:	1973	1998 Waste-in-Place (tons):	1,780,138
Year Closed:	1997		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.87

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Potential

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	27
Current Capacity:		
Planned Capacity:		

Utilities in County: Benson Electric Dept; Carolina Power & Light Company; Clayton Electric Dept; Selma Muni Light &

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	5,049		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	106,031		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	21,311	135	15,205	138
<i>Fuel Oil:</i>	17,491	113	12,479	73
<i>Natural Gas:</i>	11,761	0	8,391	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Haywood Phthic	Haywood Phthic
Mailing Address:	PO Box 1052	PO Box 1052
Phone Number:	919-989-5075	919-989-5075
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Lee County	Annual Acceptance Rate (tons):	13,548
Landfill Owner Type:		Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Lemon Springs	Acres Currently Landfilled (acres):	
County:	Lee	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	935,481
Year Open:	1972	1998 Waste-in-Place (tons):	1,010,321
Year Closed:	1999		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.68

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	21
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Central Electric Member Corp; Southeastern Power Admin

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	3,911		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	82,125		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	16,575	105	11,777	107
Fuel Oil:	13,604	88	9,666	56
Natural Gas:	9,147	0	6,499	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	John Payne	Bobby Johnston
Mailing Address:	PO Box 89	PO Box 89 SR 1177
Phone Number:	919-499-2311	919-499-2311
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	71,569
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	La Grange	Acres Currently Landfilled (acres):	
County:	Lenoir	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,093,204
Year Open:	1981	1998 Waste-in-Place (tons):	1,229,855
Year Closed:	1999		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.73

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Jones-Onslow Elec Member Corp; Kinston Public Utilities; La Gr

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,235		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	88,941		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	18,153	115	12,754	116
Fuel Oil:	14,899	96	10,468	61
Natural Gas:	10,019	0	7,039	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Bob Brafford	Larry Jones
Mailing Address:	PO Box 757	Route 4, Box 187
Phone Number:	919-527-2191	919-566-4194
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Mecklenburg County	Annual Acceptance Rate (tons):	176,697
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:	Harrisburg Road LF	Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	
County:	Mecklenburg	Average Depth (feet):	
State:	NC	1998 Waste-in-Place (tons):	3,710,642
Year Open:	1973	1998 Waste-in-Place (tons):	3,710,642
Year Closed:	1996		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.37
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	Yes

C. LANDFILL GAS UTILIZATION

Current Utilization:	
Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	Duke Power
Natural Gas Provider(s):	
Energy Purchaser(s):	
Capacity:	Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	4	43
Current Capacity:		
Planned Capacity:		

Utilities in County: Cornelius Munic Elec Light System; Crescent Elec Mem Corp; Davidson Electric Member Corp; Duk

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):		7,904		0
CO2 Equivalent of CH4 Reduction (tons/yr):		165,982		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	33,939	215	23,802	217
Fuel Oil:	27,856	179	19,535	114
Natural Gas:	18,730	0	13,136	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Scott Brown	Eddie Allen
Mailing Address:	700 North Tryon Street	700 North Tryon Street
Phone Number:	704-336-6513	704-575-6583
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Nash County	Annual Acceptance Rate (tons):	81,646
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Nashville	Acres Currently Landfilled (acres):	
County:	Nash	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,669,484
Year Open:	1976	1998 Waste-in-Place (tons):	1,748,985
Year Closed:	1997		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.87

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	27
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Edgecombe-Martin County EMC; Halifax Electric Member Corp;

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	5,003		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	105,063		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	21,311	135	15,066	137
Fuel Oil:	17,491	113	12,365	72
Natural Gas:	11,761	0	8,315	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Greg Griffin	David Thompson
Mailing Address:	PO Box 849	PO Box 849
Phone Number:	919-459-9899	919-459-9899
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	New Hanover County	Annual Acceptance Rate (tons):	113,000
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:	Wilmington	Acres Currently Landfilled (acres):	60
County:	New Hanover	Average Depth (feet):	70
State:	NC	Waste-in-Place (tons):	1,478,300
Year Open:	1981	1998 Waste-in-Place (tons):	1,663,088
Year Closed:	2042		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.84
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	Yes

C. LANDFILL GAS UTILIZATION

Current Utilization:	
Utilization System Status:	Potential
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	Carolina Power & Light
Natural Gas Provider(s):	NC Natural Gas
Energy Purchaser(s):	Takeda Chemical, USA ;Hoechst Celanese
Capacity:	Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	26
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Southeastern Power Admin

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):		4,876		0
CO2 Equivalent of CH4 Reduction (tons/yr):		102,396		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	20,521	130	14,683	134
Fuel Oil:	16,843	108	12,052	70
Natural Gas:	11,325	0	8,104	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Ray Church	Paul Marlow
Mailing Address:	3002 Highway 421 North	5210 US Highway 421
Phone Number:	910-341-4340	910-341-4340
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Catawba County	Annual Acceptance Rate (tons):	144,450
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:	Newton	Acres Currently Landfilled (acres):	
County:	Catawba	Average Depth (feet):	
State:	NC	1998 Waste-in-Place (tons):	2,168,232
Year Open:	1981	1998 Waste-in-Place (tons):	2,168,232
Year Closed:	1990		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.97

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Planned

Utilization System Type: Reciprocating Engine

Utilization System Start Year: 1999

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s): Duke Power

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	30
Current Capacity:		
Planned Capacity:	2.5	

Utilities in County: Crescent Elec Mem Corp; Duke Power Co; Maiden Electric Utility; Newton Electric Dept; Rutherford

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	5,623		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	118,083		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	23,678	150	16,933	154
<i>Fuel Oil:</i>	19,434	125	13,898	81
<i>Natural Gas:</i>	13,068	0	9,345	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Dick Wyatt, City Engineer	Barry Edwards
Mailing Address:	PO Box 389	PO Box 389
Phone Number:	704-465-8263	828-465-8260
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	121,345
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Chapel Hill	Acres Currently Landfilled (acres):	75
County:	Orange	Average Depth (feet):	30
State:	NC	1998 Waste-in-Place (tons):	1,600,000
Year Open:	1972	1998 Waste-in-Place (tons):	1,600,000
Year Closed:	1994		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.83

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Planned

Utilization System Type: Unknown

Utilization System Start Year: 2000

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	26
Current Capacity:		
Planned Capacity:		

Utilities in County: Duke Power Co; Piedmont Electric Member Corp; Southeastern Power Admin

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>		4,783		0
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>		100,437		0
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	20,521	130	14,403	131
<i>Fuel Oil:</i>	16,843	108	11,821	69
<i>Natural Gas:</i>	11,325	0	7,949	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Gayle Wilson	Harold Harris
Mailing Address:	306 North Columbia Street	306 North Columbia Street
Phone Number:	919-968-2885	919-929-9823
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Annual Acceptance Rate (tons):	350,509
Landfill Owner Type:	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Design Capacity (tons):	
City: Kernersville	Acres Currently Landfilled (acres):	
County: Forsyth	Average Depth (feet):	
State: NC	Waste-in-Place (tons):	959,464
Year Open: 1992	1998 Waste-in-Place (tons):	1,343,250
Year Closed: 2016		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.76

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Planned

Utilization System Type: Reciprocating Engine

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	24
Current Capacity:		
Planned Capacity:		

Utilities in County: City of Lake Lure; Davidson Electric Member Corp; Duke Power Co; North Carolina Electric Membe

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,403		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	92,463		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	18,943	120	13,259	121
Fuel Oil:	15,547	100	10,883	63
Natural Gas:	10,454	0	7,318	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Bill Lewis	Bill Lewis
Mailing Address:	9900 Freedman Road	9900 Freedman Road
Phone Number:	910-595-6677	919-595-6677
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	125,313
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Greenville	Acres Currently Landfilled (acres):	85
County:	Pitt	Average Depth (feet):	40
State:	NC	Waste-in-Place (tons):	3,064,206
Year Open:	1974	1998 Waste-in-Place (tons):	2,808,857
Year Closed:	1995		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.14
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	1.4
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Boiler
Utilization System Start Year:	1998
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Pitt County Memorial Hospital

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	4	36
Current Capacity:		29
Planned Capacity:		

Utilities in County: Ayden Electric Dept; Carolina Power & Light Company; Davidson Electric Member Corp; Edgecomb

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential	Current
Methane Reduction (tons/yr):	6,570	5,396
CO2 Equivalent of CH4 Reduction (tons/yr):	137,976	113,320
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project	Direct Use Project
	CO2 (tons/yr) SO2 (tons/yr)	CO2 (tons/yr) SO2 (tons/yr)
Coal:	28,414 180	19,786 180
Fuel Oil:	23,321 150	16,239 95
Natural Gas:	15,681 0	10,920 0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	John Weaver	Phil Dickerson
Mailing Address:	1717 West 5th Street	1717 West 5th Street
Phone Number:	919-830-6354	919-830-6325
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Randolph County	Annual Acceptance Rate (tons):	74,677
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Asheboro	Acres Currently Landfilled (acres):	
County:	Randolph	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,815,420
Year Open:	1973	1998 Waste-in-Place (tons):	1,966,705
Year Closed:	1998		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.92

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	29
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Central Electric Member Corp; Davidson Electric Member Corp;

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	5,325		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	111,825		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	22,889	145	16,036	146
Fuel Oil:	18,786	121	13,161	77
Natural Gas:	12,632	0	8,850	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	David Townsend	J.D. Smith
Mailing Address:	PO Box 4728	PO Box 4728
Phone Number:	910-318-6606	919-318-6606
Fax Number:		

* Italicized indicates values estimated by EPA.

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	80,588
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	St. Pauls	Acres Currently Landfilled (acres):	
County:	Robeson	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,009,134
Year Open:	1985	1998 Waste-in-Place (tons):	1,177,323
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.72
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Unknown
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Brunswick Electric Member Corp; Carolina Power & Light Company; Duke Power Co; Lumbee Rive

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):		4,158		0
CO2 Equivalent of CH4 Reduction (tons/yr):		87,310		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	17,364	110	12,520	114
Fuel Oil:	14,252	92	10,276	60
Natural Gas:	9,583	0	6,910	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	W.C. Baxley	W.C. Baxley
Mailing Address:	Route 2, Box 545 PO Box 366	Route 2, Box 545
Phone Number:	800-682-2014	800-682-2014
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	77,891
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Wentworth	Acres Currently Landfilled (acres):	
County:	Rockingham	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,357,483
Year Open:	1972	1998 Waste-in-Place (tons):	1,357,483
Year Closed:	1994		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.77

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	24
Current Capacity:		
Planned Capacity:		

Utilities in County: Davidson Electric Member Corp; Duke Power Co; French Broad Elec Member Corp; Southeastern Po

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential	Current
Methane Reduction (tons/yr):	4,424	0
CO2 Equivalent of CH4 Reduction (tons/yr):	92,906	0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project	Direct Use Project
	CO2 (tons/yr) SO2 (tons/yr)	CO2 (tons/yr) SO2 (tons/yr)
Coal:	18,943 120	13,323 121
Fuel Oil:	15,547 100	10,935 64
Natural Gas:	10,454 0	7,353 0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Mike McDaniel	Hugh Griffin
Mailing Address:	PO Box 211	Route 8, Box 701 E
Phone Number:	919-342-8104	919-342-8180
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Roland Landfill, Inc.	Annual Acceptance Rate (tons):	
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	
Alternative Landfill Name:		Design Capacity (tons):	
City:	Raleigh	Acres Currently Landfilled (acres):	25
County:	Wake	Average Depth (feet):	40
State:	NC	1994 Waste-in-Place (tons):	50,000
Year Open:	1977	1998 Waste-in-Place (tons):	50,000
Year Closed:	1978		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.02
LFG Collection System Status:	Operational
Current LFG Collected (mmscf/d):	0.0
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Shutdown
Utilization System Type:	Reciprocating Engine
Utilization System Start Year:	1984
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Carolina Power & Light Company

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	0	1
Current Capacity:		
Planned Capacity:	0.17	0

Utilities in County:	Apex Lighting Dept; Carolina Power & Light Company; Duke Power Co; Southeastern Power Admin
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):		102		0
CO2 Equivalent of CH4 Reduction (tons/yr):		2,146		0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	789	5	308	3
Fuel Oil:	648	4	253	2
Natural Gas:	436	0	170	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:		
Mailing Address:		
Phone Number:		919-876-1877
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	97,004
Landfill Owner Type:	Private	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Roseboro	Acres Currently Landfilled (acres):	
County:	Sampson	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,156,975
Year Open:	1974	1998 Waste-in-Place (tons):	1,207,279
Year Closed:	1997		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.73

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Central Electric Member Corp; Four County Elec Member Corp; S

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	4,202		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	88,240		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	18,153	115	12,654	115
Fuel Oil:	14,899	96	10,386	61
Natural Gas:	10,019	0	6,983	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Dave Craddock	Terry Gautney
Mailing Address:	P.O. Box 2096	Route 1, Box 586-B
Phone Number:	910-525-4132	919-525-4132
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Surry County	Annual Acceptance Rate (tons):	52,260
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Surry County Mt. Airy LF	Design Capacity (tons):	
City:	Mt. Airy	Acres Currently Landfilled (acres):	
County:	Surry	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,243,631
Year Open:	1972	1998 Waste-in-Place (tons):	1,343,123
Year Closed:	2002		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.76

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	24
Current Capacity:		
Planned Capacity:		

Utilities in County: Duke Power Co; Surry-Yadkin Elec Member Corp; Tennessee Valley Authority

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
Methane Reduction (tons/yr):	4,403		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	92,459		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
Coal:	18,943	120	13,259	121
Fuel Oil:	15,547	100	10,882	63
Natural Gas:	10,454	0	7,317	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Jerry Snow	Jerry Snow
Mailing Address:	PO Box 706	PO Box 706
Phone Number:	910-374-5745	919-374-5745
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	U.S. Marine Corps	Annual Acceptance Rate (tons):	46,533
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Jacksonville	Acres Currently Landfilled (acres):	
County:	Onslow	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,299,515
Year Open:	1978	1998 Waste-in-Place (tons):	1,231,119
Year Closed:	1995		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.73

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	2	23
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Carteret-Craven El Member Corp; Jones-Onslow Elec Member C

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	4,237		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	88,981		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	18,153	115	12,760	116
<i>Fuel Oil:</i>	14,899	96	10,473	61
<i>Natural Gas:</i>	10,019	0	7,042	0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	, Commanding General	
Mailing Address:	US Marine Corps Camp Lejeune PSC Box 20004	MCB
Phone Number:	910-451-5878	919-451-5003
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Union County	Annual Acceptance Rate (tons):	84,001
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Monroe	Acres Currently Landfilled (acres):	
County:	Union	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,130,144
Year Open:	1972	1998 Waste-in-Place (tons):	2,300,557
Year Closed:			

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.01
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Potential
Utilization System Type:	Unknown
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	3	32
Current Capacity:		
Planned Capacity:		

Utilities in County:	Duke Power Co; Monroe Electric Dept; Pee Dee Electric Member Corp; Southeastern Power Admin;
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential	Current
Methane Reduction (tons/yr):	5,819	0
CO2 Equivalent of CH4 Reduction (tons/yr):	122,193	0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project	Direct Use Project
	CO2 (tons/yr) SO2 (tons/yr)	CO2 (tons/yr) SO2 (tons/yr)
Coal:	24,468 155	17,522 159
Fuel Oil:	20,082 129	14,381 84
Natural Gas:	13,503 0	9,670 0

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:	Mike Shalati	Mike Shalati
Mailing Address:	PO Box 987 Union County Public Works	PO Box 987 Union County Public Works
Phone Number:	704-283-3819	704-283-3819
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Wake County	Annual Acceptance Rate (tons):	119,382
Landfill Owner Type:		Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	Wake County South LF	Design Capacity (tons):	
City:	Raleigh	Acres Currently Landfilled (acres):	
County:	Wake	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	1,786,691
Year Open:	1984	1998 Waste-in-Place (tons):	2,061,567
Year Closed:	2003		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 0.95

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	30
Current Capacity:		
Planned Capacity:		

Utilities in County: Apex Lighting Dept; Carolina Power & Light Company; Duke Power Co; Southeastern Power Admin

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	<i>Potential</i>		<i>Current</i>	
<i>Methane Reduction (tons/yr):</i>	5,465		0	
<i>CO2 Equivalent of CH4 Reduction (tons/yr):</i>	114,771		0	
<i>Emissions Avoided by Fossil Fuel Displacement:</i>	<i>Electricity Generation Project</i>		<i>Direct Use Project</i>	
	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>	<i>CO2 (tons/yr)</i>	<i>SO2 (tons/yr)</i>
<i>Coal:</i>	23,678	150	16,458	150
<i>Fuel Oil:</i>	19,434	125	13,508	79
<i>Natural Gas:</i>	13,068	0	9,083	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Phil Carter	Phil Carter
Mailing Address:	PO Box 550 Solid Waste Department	PO Box 550
Phone Number:	919-856-6186	919-856-6186
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1998
Alternative Landfill Name:		Design Capacity (tons):	
City:	Raleigh	Acres Currently Landfilled (acres):	
County:		Average Depth (feet):	
State:	NC	1998 Waste-in-Place (tons):	
Year Open:		1998 Waste-in-Place (tons):	
Year Closed:			

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):

LFG Collection System Status:

Current LFG Collected (mmscf/d): 1.4

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Operational

Utilization System Type: Boiler

Utilization System Start Year: 1997

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s): Mallinckrodt Chemical

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:		
Current Capacity:		29
Planned Capacity:		

Utilities in County:

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential	Current
Methane Reduction (tons/yr):		
CO2 Equivalent of CH4 Reduction (tons/yr):		
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project	Direct Use Project
	CO2 (tons/yr) SO2 (tons/yr)	CO2 (tons/yr) SO2 (tons/yr)
Coal:		
Fuel Oil:		
Natural Gas:		

E. CONTACT INFORMATION

	Landfill Owner	Landfill Operator
Contact Name:		
Mailing Address:		
Phone Number:		919-856-6186
Fax Number:		

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A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	92,545
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Dudley	Acres Currently Landfilled (acres):	
County:	Wayne	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,416,380
Year Open:	1973	1998 Waste-in-Place (tons):	2,617,745
Year Closed:	2012		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.09

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s):

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	3	34
Current Capacity:		
Planned Capacity:		

Utilities in County: Carolina Power & Light Company; Fremont Light & Water Dept; Pikeville Electric Dept; Pitt & Gree

D. ENVIRONMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	6,288		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	132,042		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	26,835	170	18,935	172
Fuel Oil:	22,025	142	15,541	91
Natural Gas:	14,810	0	10,450	0

E. CONTACT INFORMATION

Landfill Owner

Landfill Operator

Contact Name:	Dan McGraw, Solid Waste Manager	Lloyd Cook
Mailing Address:	460 B South Landfill Road	115 South William Street
Phone Number:	919-689-2994	919-689-2994
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:		Annual Acceptance Rate (tons):	268,428
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:	City of Raleigh LF	Design Capacity (tons):	
City:	Raleigh	Acres Currently Landfilled (acres):	125
County:	Wake	Average Depth (feet):	100
State:	NC	1994 Waste-in-Place (tons):	4,535,930
Year Open:	1972	1998 Waste-in-Place (tons):	5,607,790
Year Closed:	2002		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	1.85
LFG Collection System Status:	Operational
Current LFG Collected (mmscf/d):	2.0
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Operational
Utilization System Type:	Boiler
Utilization System Start Year:	1995
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	Ajinomoto USA, Inc.

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	6	58
Current Capacity:		42
Planned Capacity:		

Utilities in County: Apex Lighting Dept; Carolina Power & Light Company; Duke Power Co; Southeastern Power Admin

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	10,709		7,709	
CO2 Equivalent of CH4 Reduction (tons/yr):	224,897		161,885	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	45,778	289	32,250	293
Fuel Oil:	37,573	242	26,469	154
Natural Gas:	25,264	0	17,798	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Jimmy Johnson	Jimmy Johnson
Mailing Address:	PO Box 590	PO Box 590
Phone Number:	919-831-6890	919-831-6890
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Wilson County	Annual Acceptance Rate (tons):	123,875
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:	Wilson	Acres Currently Landfilled (acres):	
County:	Wilson	Average Depth (feet):	
State:	NC	Waste-in-Place (tons):	2,826,258
Year Open:	1973	1998 Waste-in-Place (tons):	2,826,259
Year Closed:	1996		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d): 1.14

LFG Collection System Status:

Current LFG Collected (mmscf/d):

Collection and Treatment System Required Under NSPS/EG: No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status: Unknown

Utilization System Type: Unknown

Utilization System Start Year:

Electric Utility Provider(s):

Natural Gas Provider(s):

Energy Purchaser(s): Wrangler Corp.

Capacity: Electricity Generation Project (MW) OR Direct Use Project (mmBtu/hr)

Estimated Potential Capacity:	4	36
Current Capacity:		
Planned Capacity:		

Utilities in County: Black Creek Electric Dept; Carolina Power & Light Company; Edgecombe-Martin County EMC; Luc

D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential		Current	
Methane Reduction (tons/yr):	6,596		0	
CO2 Equivalent of CH4 Reduction (tons/yr):	138,518		0	
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project		Direct Use Project	
	CO2 (tons/yr)	SO2 (tons/yr)	CO2 (tons/yr)	SO2 (tons/yr)
Coal:	28,414	180	19,863	181
Fuel Oil:	23,321	150	16,303	95
Natural Gas:	15,681	0	10,962	0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	Steve Clayton, WCAC&LEC	Marvin Mercer
Mailing Address:	PO Box 1728	1900 Goldshore Street
Phone Number:	919-399-2823	919-399-2823
Fax Number:		



A. GENERAL LANDFILL INFORMATION

Landfill Owner:	Yancey County	Annual Acceptance Rate (tons):	
Landfill Owner Type:	Public	Year Annual Acceptance Rate Reported:	1993
Alternative Landfill Name:		Design Capacity (tons):	
City:		Acres Currently Landfilled (acres):	6
County:	Yancey	Average Depth (feet):	50
State:	NC	1998 Waste-in-Place (tons):	384,804
Year Open:	1973	1998 Waste-in-Place (tons):	384,804
Year Closed:	1994		

B. LANDFILL GAS COLLECTION

Estimated Methane Generation (mmscf/d):	0.14
LFG Collection System Status:	
Current LFG Collected (mmscf/d):	
Collection and Treatment System Required Under NSPS/EG:	No

C. LANDFILL GAS UTILIZATION

Current Utilization:

Utilization System Status:	Planned
Utilization System Type:	Direct Thermal
Utilization System Start Year:	
Electric Utility Provider(s):	
Natural Gas Provider(s):	
Energy Purchaser(s):	

Capacity:	Electricity Generation Project (MW)	OR	Direct Use Project (mmBtu/hr)
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Estimated Potential Capacity:	0	4
Current Capacity:		
Planned Capacity:		

Utilities in County:	Carolina Power & Light Company; French Broad Elec Member Corp; Tennessee Valley Authority
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D. ENVIROMENTAL BENEFITS OF UTILIZATION

	Potential	Current
Methane Reduction (tons/yr):	786	0
CO2 Equivalent of CH4 Reduction (tons/yr):	16,512	0
Emissions Avoided by Fossil Fuel Displacement:	Electricity Generation Project	Direct Use Project
	CO2 (tons/yr) SO2 (tons/yr)	CO2 (tons/yr) SO2 (tons/yr)
Coal:	3,157 20	2,368 22
Fuel Oil:	2,591 17	1,943 11
Natural Gas:	1,742 0	1,307 0

E. CONTACT INFORMATION

Landfill Owner		Landfill Operator
Contact Name:	H.D. Miller	Earl Tipton
Mailing Address:		Yancey County Courthouse Room 11
Phone Number:	704-675-4043	704-682-3971
Fax Number:		

* Italicized indicates values estimated by EPA.

December 5, 1998

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