

BLADEN COUNTY SOLID WASTE



RESIDENTIAL “CONVENIENCE CENTER” WASTE COLLECTION SYSTEM

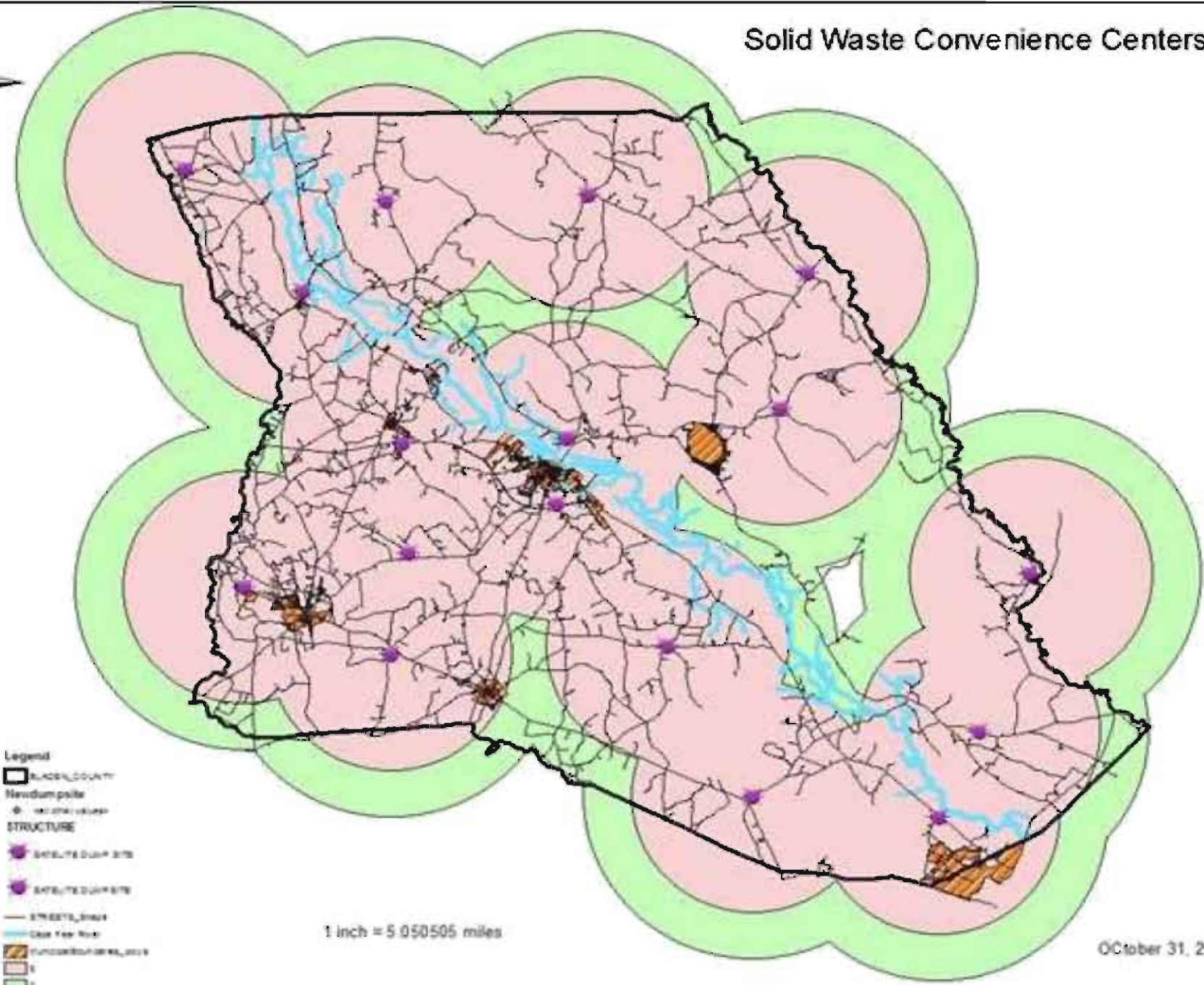


Service Area Demographics



- 4th Largest County in the State @ 887.2 mi²
- Land Area: 874.3 mi² - Water Area: 12.83 mi²
- 127,000 acres Farm Land & 32,800 State Forest
- 2010 Population: 35,190
- 22.5% live in Towns - 76.5% are rural residents
- Population Density: 40 mi² (s) & 15 mi²(n)
- 17,718 Households - 8,937 Families
- 7 Townships (5 with curbside pickup)
- 1,802 Businesses (commercial waste generators)

Solid Waste Convenience Centers



Legend

-  BLADEN COUNTY
-  Newdump site
-  STRUCTURE
-  STRUCTURE
-  STREETS, Road
-  Oak Tree Road
-  LANDFILL
-  1
-  2

1 inch = 5 050505 miles

October 31, 2011

Convenience Center Development (17)



- Ammon Collection Center opened in December 2001
- Hickory Grove Collection Center in January 2002
- Sites 3, 4 & 5 in 2003 (April, May & September)
- Tar Heel Site opened in July 2004
- Sites 7,8,9 ,10 & 11 in 2005
- Sites 12, 13, & 14 in 2006
- Opened Kelly & Bay Tree sites in 2007
- Opened 17 in January 2008 (transfer station gate)
- Transition period: 6 years, 1 month
- Approximate cost for each center: \$90,000

Each Center Consist of the Following Elements:



- 1 Acre – minimum size (208 x 208)
- 2.5 cubic yard compactor unit w/40 yard container on 50 x 12 concrete pad
- 18 x 20 lighted shelter beside compactor
- 10 x 12 attendant office w/HVAC and restroom
- 14 x 30 “swap shop” w/concrete floor & roll up door
- 4 - 30 yard roll off containers
- Utilities – electricity, lights, water, septic or sewer
- 834’ of 6’ chain link fencing with 2 double gates
- 2 – 1000 watt flood lights, pole mounted

Kelly Convenience Center





**BLADEN COUNTY
SOLID WASTE
COLLECTION SITE**

ACCEPTABLE MATERIALS
HOUSEHOLD WASTE
APPLIANCES
PICKUP ON CAR TIRES
MOTOR OIL
LEAF & LIMB
BROWN GLASS
BATTERIES



Attendant Office, Shelter & Compactor



LCID, Scrap Metal, Brown Goods & Spare



“Swap Shop” Recycling Area



Items for Reuse – 2 per day



Used Tires, Oil & Filters



Electronics Recycling









HOUSEHOLD
GARBAGE
ONLY

ACCESS

Convenience Center Logistics - Construction



- Land cleared , grubbed & graded by county staff
- Concrete pads poured by county staff
- Compactor installed by county staff
- Office constructed by DOC/ county supplied materials, transportation & on site set-up
- 500 tons of ABC stone – packed by dozer
- Don't forget zoning, building & septic permits
- All other construction elements completed by various contractors

Convenience Center Logistics - Operations



- Hours of Operation: 7 a.m. to 7 p.m., Monday, Tuesday, Thursday, Friday & Saturday - 60 hours per week – gate site open on Wednesday (72 hours)
- Uniformed site attendants are contracted thru Lankford Protective Services (\$504,400 yr.)
- All sites provide daily activity reports to BCSW by 7 p.m.
- BCSW Collections staff hours: 7 a.m. to 3:30 p.m. (3 trucks)
- BCSW Collection Supervisor “on call” 3:30 p.m. to 7 p.m. daily and 7 a.m. to 7 p.m. on Saturdays for problems
- Site attendants are responsible for site cleanliness!

Activity Report - Working Tally sheet

SITE	Compactor	Brown Goods	Yard Waste	Appliances	Recycling	Used Oil	Tires	TVs/CPUs	Oil Filters	Batteries	Oyster Shells		
Gate	#	%	%	%	RO	#	#	#	%	#	%	%	
Abbottsburg	1400	450	80 %	70 %	20 %	T 40	# 2	# 2	# 9	50 %	# -	- %	Extra Bin
* Wards	1800	1250	100 %	100 %	40 %	RO 100	# 4	# 10	# 7	10 %	# 1	- %	45
* Dublin	1500	1000	2-100 %	75 %	20 %	RO 60	# 0	# 12	# 2	50 %	# 0	- %	OK
* Bay Tree	1600	1600+	80 %	60 %	60 %	T 15	# 0	# 0	# 0	05 %	# 0	- %	1
Lisbon	1400	300	50 %	10 %	01 %	T 25	# 2	# 0	# 0	40 %	# 1	- %	1
Sandy Grove	1350	400	100 %	30 %	0 %	T 95	# 20	# 1	# 1	95 %	# 0	- %	1
					65								
Hickory Grove	1450	500	95 %	50 %	65 %	T 70	# 3	# 4	# 6	25 %	# 0	- %	1
Kelly	1400	650	70 %	15 %	15 %	T 85	# 0	# 5	# 3	75 %	# 0	- %	1
Live Oak	1200	500	100 %	60 %	20 %	T 40	# 2	# 2	# 0	10 %	# 0	- %	1
Rowan	2200	800	20 %	90 %	80 %	T 100	# 5	# 0	# 0	80 %	# 1	- %	1
Ammon	1500	850	40 %	45 %	35 %	T 90	# 11	# 5	# 4	05 %	# 0	- %	1
* Bladenboro	1600	300	100 %	15 %	10 %	RO 60	# 15	# 14	# 11	40 %	# 0	- %	25
* Tar Heel	1450	375	100 %	03 %	75 %	T 90	# 5	# 0	# 6	02 %	# 0	1001 %	15
Council	1800	100	50 %	30 %	75 %	T 100	# 0	# 1	# 1	10 %	# 0	- %	
* Tobermory	1500		30 %	15 %	40 %	T 90	# 17	# 11	# 13	10 %	# 2	- %	1
* East Arcadia	1400	700	100 %	60 %	70 %	T 10	# 0	# 1	# 0	05 %	# 0	- %	10

Date called in: 10/07/2011 Signature: Paulette Jernigan - Saturday

Each line should be filled in every day for every site using the following gauges:

100% = Full 75% = 3/4 Full 50% = 1/2 Full 25% = 1/4 Full 0% = Empty

Fax daily by 7:00 pm to 910-645-4270 and 910-872-6321

- * Bay Tree - Card B. - 90%
- * Wards - Extra bin - 45% B.G.
- * Bladenboro - Extra bin 25% B.G.
- * Tar Heel - Extra bin - 15% B.G.
- * Tobermory - Compactor - Full
- * East Arcadia - Extra bin 10% B.G.

Collection Comparison & Waste Reduction



**FY 00/01 428 “Green Boxes”
3 Front Loading trucks**

- Total tonnage: 36,543
- MSW: 30,497
- C&D: 6,046
- Recycled: 330
- LCID: 248
- Used Oil: 947
- NCDA: 1,460 containers

**FY 10/11 Convenience Center
3 Roll Off Trucks**

- Total tonnage: 17,828
- MSW: 15,669
- C&D: 2,159
- Recycled: 1,450
- LCID: 1,293
- Used Oil: 3,869
- NCDA: 11,235 containers

Waste Reduction Success



- Waste Stream Management - Supervision
- Recycling
- Out of County Trash
- Economy

Other Amenities



Oyster Shell Recycling

Pesticide Container Recycling



Other Amenities - Continued



Mixed Recyclables Roll Off



Mixed Recyclables Trailer




Collections - Final Destinations



- Mixed Recyclables - Pratt Industries, Fayetteville NC
- OCC – Pratt Industries, Fayetteville NC
- Scrap Tires - Central Carolina Tire, Cameron NC
- Scrap Metal - Metal Recycling Services, Monroe NC
- Used Oil - Nobel Oil, Sanford NC
- Electronics - Creative Recycling, Raleigh NC
- Batteries - US Lead, Winter Haven FL
- MSW & C&D- Sampson County Disposal, Roseboro NC
- Pallets - Sampson County Disposal for Grinding, Roseboro, NC
- NCDA Containers - USAg Recycling, Waller TX
- Oyster Shells - NCDENR, Morehead City, NC
- LCID - LCID Landfill, Elizabethtown, NC

Challenges/Issues/Thoughts



- Service Area
- Customer Service Impact
- Stakeholder Expectations
- Cost:  
- Obstacles
- Travel Time
- Hours of Operation
- Amenities/Services
- Education Programs
- Attitudes

- Internal Operations
- Rules & Regulations
- “Stick to Your Guns”
- Cleanliness of Site
- Positive Experience
- Growth/Evolution
- Flexibility
- Find your “NICHE”



Questions ?

Contact Information:

Robert Mazur

*General Services
Manager*

*Bladen County
Government*

910-872-6320

910-645-4270

Elizabethtown, NC

Thank You!

