

F. Pollution Prevention

Following are descriptions of environmental projects that are ongoing or planned.

1. Pollution Prevention Standard Operating Procedures

As part of the EMS, the following Standard Operating Procedures have been created to support our pollution prevention efforts:

- Rechargeable Battery Recycling SOP
- Refrigerant Management SOP
- Battery Recycling SOP
- Green Renovation SOP
- Safer Chemical Management SOP
- PCB Ballast SOP
- Well Maintenance SOP
- Fluorescent Bulb Recycling SOP
- Integrated Pest Management SOP
- Transportation SOP
- Animals in Classroom SOP
- Fuel Site Requirements and Spills SOP

2. Energy Conservation and Management Policy

ACPS implemented the Energy Conservation and Management Policy in April 2009. Energy usage has steadily decreased, and 22 of our schools have received the Energy Star label.

Additional information on our energy conservation program is available at:
<https://www2.k12albemarle.org/dept/osp/building/environmental/Pages/Energy-Management.aspx>

3. Recycling program

The following items have been recycled from 2012-2015:

- Oil-water separator debris and waste fuel mixtures
- Used oil and antifreeze
- Frying oil from high schools (eliminated in 2011)
- PCB-containing ballasts
- Scrap metal delivered to Cycle Systems
- Fluorescent, HID and sodium bulbs
- Unsold auction materials
- Electronic waste (computers, cell phones, chargers, printers, keyboards, etc.)
- Household batteries
- Construction & demolition debris
- Cardboard, plastics, metal, paper

Figure 1: Recycled Quantities for Albemarle County Public Schools in 2014

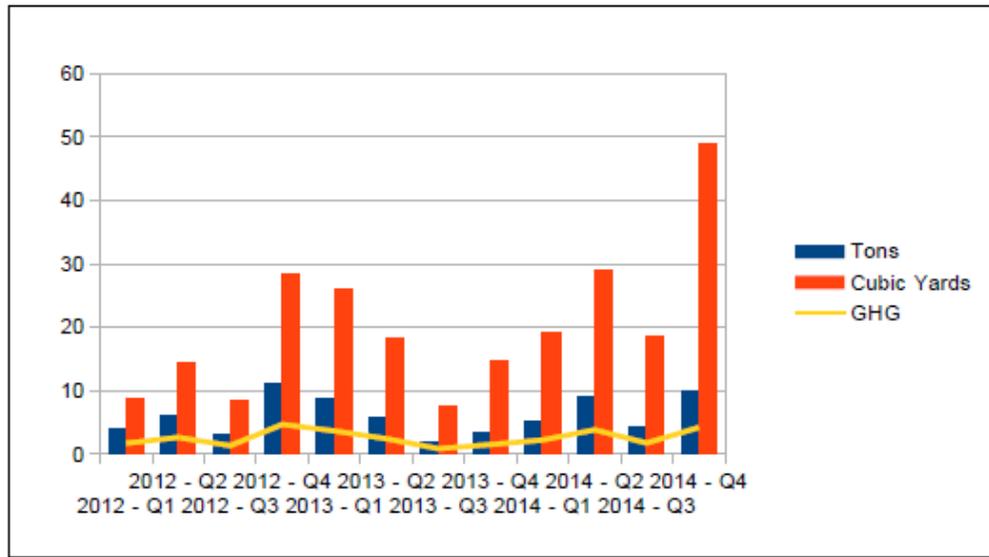
Material	Amount (tons)	Vendor
Used Oil & Oil Filters	12.3	Safety Kleen
Used Antifreeze	1.8	Safety Kleen
Fats, Oils & Greases	17.9	Valley Proteins
Chemicals/Waste Fuel	75.0	Reco, Rapid Recovery
Scrap Metal	8.2	Gerdau
Batteries/cell phones	0.24	Metal Conversion Technologies, Batteries Plus, AERC
TechnoTrash	0.05	GreenDisk
Electronic waste	30.2	Computer Recycling of Virginia
Mixed Waste Recyclables	316	van der Linde
Cardboard Recycling	30	County Waste
Composted Food Waste	28.2	Black Bear Composting
PCB Ballasts	0.7	AERC
Fluorescent, Hg, Na Bulbs	1.5	AERC
Auction Waste	2.2	1-800-GOT-JUNK
Construction Waste	0.9	Van der Linde
Total (tons)	525.3	

Cost savings resulted from avoiding landfill fees for all recycled and reused materials.

4. Composting

In February 2012, we started our first commercial composting operation at Sutherland Middle School. The program has expanded to include Jouett Middle, Crozet Elementary, Meriwether Lewis Elementary, Monticello High, and Building Services. A recent grant will help us expand the program to the remaining western feeder pattern schools (Henley Middle, Western Albemarle High, Murray Elementary, Brownsville Elementary).

Organics Recycling Report - Q4 2014



This Year (through 12/31/14)

	Cubic Yards	Tons	Metric Tons of CO2 in GHG Avoidance*
Building Services	13.2	2.53	1.06
Crozet Elementary	25.2	6.12	2.57
Jack Jouett Middle	11.1	3.04	1.27
Meriwether Lewis Elementary	39	9.78	4.10
Monticello High	13.8	3.24	1.36

5. Renewable Energy

The Renewable Energy Resource Center includes a 42 kilowatt solar photovoltaic array, (6) solar thermal panels to provide hot water to the school, and a Skystream 3.7 wind turbine. Students are working on a sculpture to be powered by the demonstration solar photovoltaic array at the entrance to the school. Data on power generation from each system can be accessed at:

http://live.deckmonitoring.com/?id=henley_middle_school

ACPS recently finalized a contract for a Solar Power Purchase Agreement (~1 MW) with Secure Futures to solar panel installations on 5 schools.

