How it Works: Aerated Static Pile System at

NC State Compost Facility & Research Cooperative







A process of recycling organic materials into a rich soil amendment. Compost can be used to grow new plants, flowers, and trees!

This organic waste & compostable materials are placed into a green compost bin.



Once the organic waste is completely broken down, the resulting compost is full of nutrients and will be used on campus to close the loop with organic waste management.



B Everything collected is taken to a compost dumpster by staff.



The piles remain in the bay until they reach at least 131 degrees F for 3 days and have maintained an average temperature of 113 degrees F for 14 days in order to kill pathogens & weed seeds.







The homogenized mixture is placed into a bay with perforated PVC pipes recessed into the floor. The pipes are hooked up to blowers and keep the piles aerated, eliminating the need for turning.

This material is then mixed with wood chips & animal bedding (also from campus) at specific rates to ensure the proper carbon to nitrogen ratio, moisture content, bulk density, & porosity.

