

Aeration and Control Design™

Source Separated Organics Composting

CUSTOMER PROFILE

City of Hutchinson, MN – Composting Facility



CLIENT NEEDS

The City of Hutchinson, MN began curbside recycling residential organic waste and needed a 15 ton per day composting system that could:

- Reliably meet pathogen and vector reduction goals.
- Provide odor control.
- Work year-round through a wide range of conditions and feedstocks.
- Expand for growth

THE SOLUTION

Hutchinson purchased used in-vessel containers from Keene NH, and chose ECS to provide an aeration and control design, updated the control hardware, the operator software, and provide technical support. Incoming feedstocks are mixed and homogenized in a wet mill then conveyor loaded directly into the vessels as they sit on a roll-off truck. Pathogen reduction and primary stabilization occurs during 14 days of retention time in the vessels. The exhaust air is scrubbed by a biofilter. After primary stabilization, the compost is formed into windrows and periodically turned for final stabilization.

CompTroller™ The aeration and control infrastructure is designed to control 16 roll-off composting vessels and accommodate future growth up to 24 vessels. The control system provides continuous aeration and a real-time database for logging all measured process parameters and operator comments. ECS engineers provided on-site start-up functions and operator training. ECS provides ongoing dial-up technical support for control system tuning from our office in Seattle. The City uses a vibrating screen to reclaim bulking agents from the finished compost and prepare it for bulk sales and bag end-markets.

