

SV Composter™

Stationary In-vessel Composting System

CUSTOMER PROFILE—Mariposa County, CA—MSW Composting



CLIENT REQUIREMENTS

Mariposa County needed a composting technology vendor to design and provide equipment for a new Municipal Solid Waste (MSW) composting facility with:

- A preprocessing line for separating the organic fraction from the incoming unsorted waste;
- An in-vessel system for primary composting and ASP system for curing; and,
- Proven odor control for location on an odor sensitive site.

THE SOLUTION

The team of ECS and DA Construction (of Montana) completed the design and construction of the Mariposa MSW in-vessel composting facility. This facility is designed to receive 50 tons of unsorted MSW per day. The waste passes through pre-processing equipment including picking lines, bag-breakers, and a debris-roll screen for removing recyclables and contaminants and separating the organic from the non-organic wastes.

Primary composting takes place in our SV Composter, an automated in-vessel compost system. This installation includes eight (8) concrete vessels that are 14' wide by 50' long. The SV Composter features include, automated aeration control and monitoring; reversing and recirculating process aeration; in-floor plug-resistant aeration; leachate and condensate collection; and, biofiltration of all exhaust air. ECS supplied process equipment includes a heavy duty compost mixer, specialized conveyors, and a negatively aerated ASP system for extended curing.

Following 16 days of primary in-vessel composting the biomass is cured on an ECS ASP. When ready, the compost is mechanically screened and made available for alternate daily cover on the County's landfill. Future facility plans include composting source separated organics for making Grade A compost.



Top photo—one group of four vessels;
Bottom photo—negatively aerated ASP with in-slab aeration