

PROJECT PROFILE

Delaware County MSW Co-Composting Facility



LOCATION Delaware County, New York	ANNUAL WASTE INPUT 35,000 Tonnes MSW 6,500 Tonnes Biosolids	DIVERSION RATE Over 70 %
CLIENT Delaware County Department of Public Works	POPULATION SERVED 50,000	HOURS OF OPERATION 12 hours/day, 7 days/week
PROJECT TYPE Turnkey with One Year Operational Supervision	START-UP November 2005	MATERIALS RECOVERED Ferrous Metal, Nonferrous Metal, Wood, Stones and Concrete, Plastic (future)
	OUTPUT • Compost - 40 % • Residuals - 30 %	

BACKGROUND

In 1991, the Delaware County Department of Public Works began implementing the Integrated Solid Waste Management Plan for Delaware County, New York, which had recently been completed. The goal of the solid waste management strategy was to significantly increase recycling and reuse strategies while providing a full range of services to the residents of Delaware County. Through the early 1990s, the Department of Public Works enhanced and further developed the Solid Waste Management Center in the Town of Walton, including the expansion of the municipal solid waste landfill, a new construction and demolition landfill, a materials recovery facility for recyclables, and a drop-off area for residents for both municipal solid waste and recyclables. In addition, they were responsible for the hauling of waste from seven individual transfer stations that were operated by the towns.

As part of their Integrated Solid Waste Management Planning efforts, the Department of Public Works became interested in and began evaluating options for municipal solid waste composting as a way to achieve rather aggressive recycling goals. In 1995, a draft Request for Proposal for the procurement of a municipal solid waste composting technology was developed for public review and discussion. In 1996, the County officially requested bids for an MSW composting technology under New York State General Municipal Law 120W. This procurement allowed for the selection of a technology using the design/build process.

Conporec, in partnership with S&W Services, Inc., prepared and submitted a proposal to Delaware County to design and build a municipal solid waste co-composting facility (including processing of biosolids). In May of 1997, the Joint Venture of Conporec/S&W Services, Inc., was selected by Delaware County as the preferred developer.

PROJECT DESCRIPTION

The components for the proposed Delaware County MSW Co-Composting Facility included the following:

- a three-acre processing building (totally enclosed)
- a waste receiving area for both MSW and biosolids including a waste pit
- a rotating bioreactor for accelerated decomposition of organics
- a primary refining and sorting area for separation of inorganics (non-compost)
- a windrow composting area with forced air for compost maturation
- an advanced secondary refining system to finish the compost
- a storage and curing area with 90 days of enclosed storage
- an extensive odor control system including a performing biofilter

PROJECT STATUS

The Joint Venture of Conporec/S&W Services, Inc., negotiated a two-phased contract that was approved and executed by the County in September 1998. The first phase of the contract included preliminary engineering, environmental reviews, and permitting under New York State Law for construction and operation of a Solid Waste Management Facility. Preliminary engineering and initial permitting was completed in August 1999. Environmental review was completed by the County in the fall of 1999. Responses to permit questions were completed in October 2000. The New York State Department of Environmental Conservation deemed the application complete and issued a permit in early 2001. Construction of the project began in May 2002, and operations started in 2005.