

Ohio Water Development Authority

Research and Development Grant Program

Solid Waste Projects

City of Akron

Study of Leachate Migration from a Municipal Landfill (1985, Grant Award \$103,000)

The study provided information regarding the effects of landfill operations on groundwater quality. The study demonstrated the use of containment transport modeling for groundwater management. Modeling simulations showed that groundwater extraction wells abated potential leachate migration.

Final Report

City of Cincinnati

Composting Municipal Wastes (1990, Grant Award - \$50,000)

The City of Cincinnati conducted a bench-scale evaluation of aerobic composting of yard waste with biodegradable fraction of municipal solid waste and/or wastewater sludge. Additional testing was completed to determine how high levels of lawn care chemicals affect the composting operation. The City concluded that a mixture of yard waste and either municipal solid waste and/or wastewater sludge are aerobically compostable. No significant health hazards were identified during the study.

Final Report – Part 1

Final Report – Part 2

Medina County

Small Yard Waste Composting Facility (1990, Grant Award - \$55,000)

The County successfully operated a yard waste composting facility adjacent to the County's central processing facility. The two year test resulted in an odorless operation and reduced landfill mass accrual. Initial start-up costs were lower than expected and the sale of processed mulch product is going well.

Final Report

Recycling Through Production of Mixed Organic Compost (1996, Grant Award - \$250,000)

Based on this study, the County was able to divert approximately 12% of the waste stream at the County's central landfill processing facility to composting. This decrease in landfill waste stream is saving the County \$250,000 annually. Odor control for the composting facility is optimal.

Final Report