



Case Study



Client: Hampton Roads Sanitation District (HRSD)
Hampton Roads, Virginia

Challenge: The district serves 17 counties and cities, a population of 1.5 million and consists of more than 500 miles of pipes, 101 pump stations, and 9 major plants in the Hampton Road area. Since its inception in 1940, the mission of the HRSD has expanded to include: the prevention of pollution, protection of public health, and support of community development by providing wastewater collection, treatment, and related services. Just one of the means by which the HRSD wanted to apply that mission statement is through the Biosolid's Management Program. The goal was to recycle biosolids in a beneficial, cost effective, environmentally sound, and publicly acceptable manner.

Solution: As a contractor for HRSD, ESI operates a large-scale composting facility. In addition, for over 9 (nine) years, ESI provided ash recycling services to HRSD. Solutions created by ESI have enabled HRSD to reduce costs by 25% annually. Current programs include land application of biosolids to farmland, composting, and ash recycling. HRSD's long-range goal is to further develop these programs through research and demonstration programs and evaluate other beneficial methods of recycling biosolids.

Results: The annual recycling program has enabled HRSD to pass on those savings to its customers and use the monies to invest in technology and research to further create beneficial methods of recycling biosolids. Not only are the goals of the mission being constantly achieved, the solutions create additional opportunity for HRSD through programs such as: Nutri-Green® Compost which is sold to landscapers, nurseries and the general public, and is widely used in commercial and home landscaping and gardening and Heat-Dried Biosolids Fertilizer which produces a high quality turf and landscape fertilizer.

Educate -> Evaluate -> Execute -> Enterprise

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