



# MSD

INNOVATIVE PLAN TO  
REDUCE ODOR AT  
MORRIS FORMAN PLANT  
JUNE 2000

- A new way to handle solid by-products of the wastewater treatment process at MSD's Morris Forman Wastewater Treatment Plant will eliminate a major odor source and save the plant more than \$4 million annually in operation and maintenance costs.
- In April 2000 MSD's Board approved a \$64.6 million construction project, the largest contract in MSD's history, to design and build the new solids handling process. The contract was awarded to Black & Veatch/J.S. Alberici Joint Venture, Louisville.
- When completed in 2002, solids at the plant will initially be treated by an anaerobic digestion process and blended with secondary solids before they are dewatered and dried. The dried solids can be used as a fertilizer, recycling nutrients.
- The new process will replace the plant's low-pressure oxidation or Zimpro system, which conditions and dewateres solids before they are disposed at a landfill. The Zimpro system is the main source of odors from the Morris Forman plant.
- Because the new process will be enclosed and provide multiple odor control devices, it is expected to eliminate all solids handling odor from the plant. Existing buildings at the Morris Forman plant will house dryers and other process components.
- The new process will reduce the volume of solid waste generated at the Morris Forman plant and save on landfill disposal charges. Methane gas produced in the anaerobic digestion process will be used to fuel dryers, reducing energy costs at the plant.
- Louisville/Jefferson County Metro Parks Department purchases dried biosolids from Milwaukee for use in the Metro Parks' 12,000-plus acres of property. MSD is exploring similar uses for the biosolids that will result from the new process. For more than 60 years, the Milwaukee Metropolitan Sewerage District has marketed its dried biosolids under the brand name Milorganite.

- Since 1995, MSD has invested more than \$7 million in odor control measures at the Morris Forman plant.
- Black & Veatch/J.S. Alberici Joint-Venture plans to subcontract about \$18 million, nearly one-third of the project work, with businesses owned by women and minorities.
- An estimated 16 minority-owned companies will be awarded subcontracts totaling more than \$13 million and 14 woman-owned firms will be awarded more than \$5 million in subcontracts.
- Minority-owned businesses will perform roughly 20 percent of the work and woman-owned companies will perform about eight percent. This exceeds MSD's goals of subcontracting 15 percent of major contracts to minority-owned businesses and three percent to woman-owned enterprises.
- MSD's DiverseWorks program certifies that firms are majority owned and operated by women and minorities. They learn how to work with large organizations by providing MSD with goods and services. Nearly 20 percent of MSD contracts are awarded annually to businesses owned by minorities and women.

