



Project Profile...



BDP Industries, Inc. Greenwich, NY

Albany County North and South Wastewater Treatment Plants Sludge Dewatering Improvements

Facility Contact:

Superintendent of Operations: Richard Lyons (518)447-1610
Engineer: Albany County Engineering Department

Project Summary:

An existing vacuum filter produced a wet cake and used a large amount of slurried lime and ferric chloride. With the cost to operate the City's sludge incinerator being largely dependent on the inlet cake dryness and chemical content, alternative dewatering technologies were evaluated. In 1981 a belt dewatering press was installed at the *North Plant*. A dryer cake and decreased chemical usage dramatically improved the efficiency of the incinerator.

Based on the results at the North Plant, a similar machine was installed at the *South Plant*. Since that time, the County decided to add a second BDP machine at each of the two facilities.

The County's dewatering system now has increased throughput capability and redundant equipment. Rich Lyon's dedication to his profession has resulted in significant operating cost savings for the County.

Plant Data:

North Plant: Average Daily Flow: 22 MGD Design Sludge Feed Rate: 150 gpm @ 3.7%
South Plant: Average Daily Flow: 21 MGD Design Sludge Feed Rate: 100 gpm @ 3.5%

Sludge Characteristics: Blend of Raw Primary and Waste Activated

Belt Dewatering Press Equipment Components (Total 4 Machines)

- # Gravity Dewatering followed by wedge and pressure sections
- # Complete automated control system
- # Manufactured locally in Greenwich, NY
- # Low maintenance machine design
- # Designed for continuous operation