



Project Profile...



BDP Industries, Inc. Greenwich, NY

Town of Chenango, NY Northgate Wastewater Treatment Plant Sludge Dewatering Improvements

Facility Contacts:

Chief Operator: Bill Cowles (607)771-8296
Engineer: Hawk Engineering, P.C. (607)648-4168

Project Summary:

Due to increased flow and loading, the Town upgraded its treatment facility in 1997. The upgrade required an expansion of the sludge dewatering operations. The existing belt dewatering press had been operating reliably and efficiently since 1993. The 1997 upgrade included a new Gravity Belt Thickener (GBT) followed by the original, relocated belt dewatering press.

Use of the GBT decreases the volume of sludge applied to the belt press. In addition, overall manpower and maintenance requirements are reduced with this arrangement. The thickened sludge also results in a drier dewatered cake. The dried sludge is then processed on-site, using static pile composting.

Our special thanks to Bill Cowles, Chief Operator. Bill's thorough understanding of the dewatering equipment is what makes the equipment perform so well at his facility.

Plant Data:

Average Design Flow: 0.88 MGD Annual Sludge Production: 215 dry tons
Waste Activated Sludge (WAS) from Activated Sludge Secondary Treatment Process

Sludge Dewatering Equipment Components

Gravity Belt Thickener (GBT)

- ↓ # One Meter GBT, 16' long deck
- ↓ # Throughput: 50 to 200 gpm
- ↓ # Feed Solids: 0.75%, thickened to 5%

Belt Dewatering Press

- ↓ # Model EM: One Meter, 2-Belt Machine
- ↓ # 24 gpm of WAS dewatered to 15% solids
- ↓ # Solids capacity: 600 dry pounds per hour