



**D&B ENGINEERS  
AND  
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## Wastewater Treatment

### SERVICES INCLUDE:

*Facility Planning*

*Pilot Studies*

*Detailed Design*

*Economic Evaluations and Value Engineering*

*Operations and Maintenance Assistance*

*Construction Management*

*Start-Up and Training*



Having engineered hundreds of wastewater treatment projects ranging in capacity from 25,000 gallons per day to 350 million gallons per day, D&B Engineers and Architects, P.C. (D&B) is an expert in all aspects of wastewater treatment and water pollution control. D&B's expertise encompasses preliminary, primary, secondary and tertiary treatment; sludge thickening; dewatering; and residuals management.

D&B's process system experience includes activated sludge, high rate biological trickling filters, and rotating biological discs. The firm's sludge process experience includes gravity and flotation thickeners; centrifuge and belt press dewatering; aerobic and anaerobic digestion; incineration; composting; chemical stabilization; heat drying; pelletization; and other beneficial reuse processes.

D&B has handled numerous advanced treatment plants, including multimedia and sand filters for enhanced solids removal; nitrification for reduction of organic loading on receiving stream; denitrification; and phosphate removal for nutrient control.

For disinfection, D&B is well-versed in the usage of chlorine and sodium hypochlorite and specializes in the modification of existing facilities switching to liquid sodium hypochlorite for safety considerations. In cases where the receiving stream does not permit chlorine, dechlorination by use of alternative disinfection systems, such as sodium dioxide or ultraviolet disinfection, can be economically evaluated and designed.

Special process review studies include odor surveys which include on- and off-site monitoring, computer modeling and odor characterization. Odor control systems have been designed for preliminary, primary and secondary and sludge process areas.

To meet today's budget constraints, D&B conducts facility reviews and makes recommendations for a continuous improvement program to enhance facility operations while reducing overall operation and maintenance costs. Increasing demands for better effluent quality must be met while holding operation and maintenance (O&M) costs/rates relatively constant. D&B is uniquely qualified to assist the client in conducting its own program without loss of control of the facility through full contract operations or other privatization alternatives.

D&B's staff also specializes in construction-related activities, including resident engineering inspections, construction management, review of shop drawings, preparation and updating of schedules, O&M manuals, and start-up and training services.