



**D&B ENGINEERS
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Biosolids (Sludge) & Residuals Management

SERVICES INCLUDE:

Facility Review and Evaluation

Pilot Studies

Detailed Design

Dewatering /Drying Systems

Biological and Chemical Stabilization Processes

Reuse/Disposal



D&B Engineers and Architects, P.C. (D&B) is a full-service environmental engineering firm and a leader in the analysis of options available for sludge and residuals processing and disposal. The firm capably handles sludge management projects for plants ranging in size from one gallon to 350 million gallons per day.

Thickening processes include gravity thickeners, centrifuges, and belt filters. Dewatering systems have been comprised of centrifuges, belt filter presses, and plate and frame presses.

Stabilization processes have included anaerobic and aerobic digestion, chemical stabilization and composting. Drying systems consist of indirect steam dryers, flash dryers, and pelletization in rotary dryers.

Thermal reduction has been accomplished with multiple hearth furnaces and fluidized bed furnaces, as well as co-combustion with refuse in mass burn furnaces.

Beneficial reuse or disposal of sludge and residuals depends on sludge and residual quality, product developed, and the availability of markets. Options include land application, land reclamation, landfill cover, soil amendment products, and landfill.

D&B has the experienced personnel on staff to conduct the facility review and complete an evaluation document and outline alternatives. If warranted by the data collected, D&B will conduct pilot studies on particular equipment or systems to determine feasibility selection and/or future Operation and Maintenance (O&M) costs.

D&B's project managers and personnel are experienced in all engineering disciplines that are required to complete the detailed design of the improvements or additions selected. D&B's environmental permitting division can handle all aspects of the project from local, state and national perspectives.

D&B specializes in construction-related services, including resident engineering inspection, construction management, shop drawing review, schedule preparation and updating, Operations and Maintenance (O&M) manuals, and start-up and training services.