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## Treatment process applied to leachate treatment

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Landfill leachate initially is a high-strength wastewater, characterized by low pH, high biochemical oxygen demand (BOD), chemical oxygen demand (COD), and by the presence of toxic chemicals. In addition, the leachate quality is variable from landfill to landfill, and over time as a particular landfill ages. Consequently, neither conventional biological waste treatment nor chemical treatment processes separately achieve high removal efficiency over the life of the fill. Selection and design of leachate treatment process is not simple. Important factors that govern the selection and design of treatment facilities include leachate characteristics, effluent discharge alternatives, technological alternatives, costs, and permit requirements. The purpose of this paper is to review the treatability and nature of leachate treatment problems, various treatment methods, their application and limitations, leachate treatment cost and finally to develop some generalized methods and process trains for leachate treatment under different conditions.

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