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Landfill Disposal Systems

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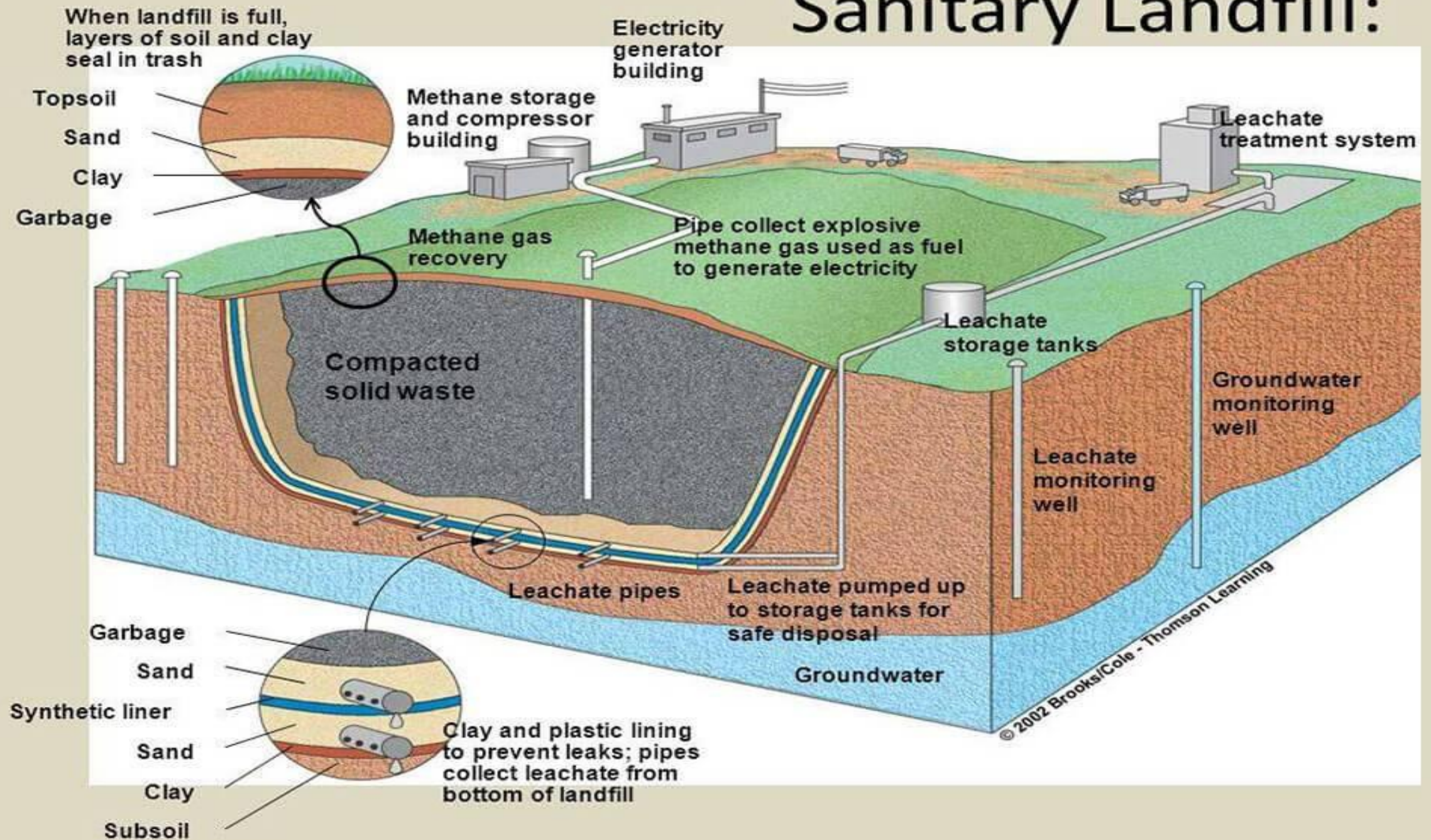
General Types of Landfills

- ▶ Open Dump
- ▶ Sanitary Landfill
- ▶ Secure Landfill

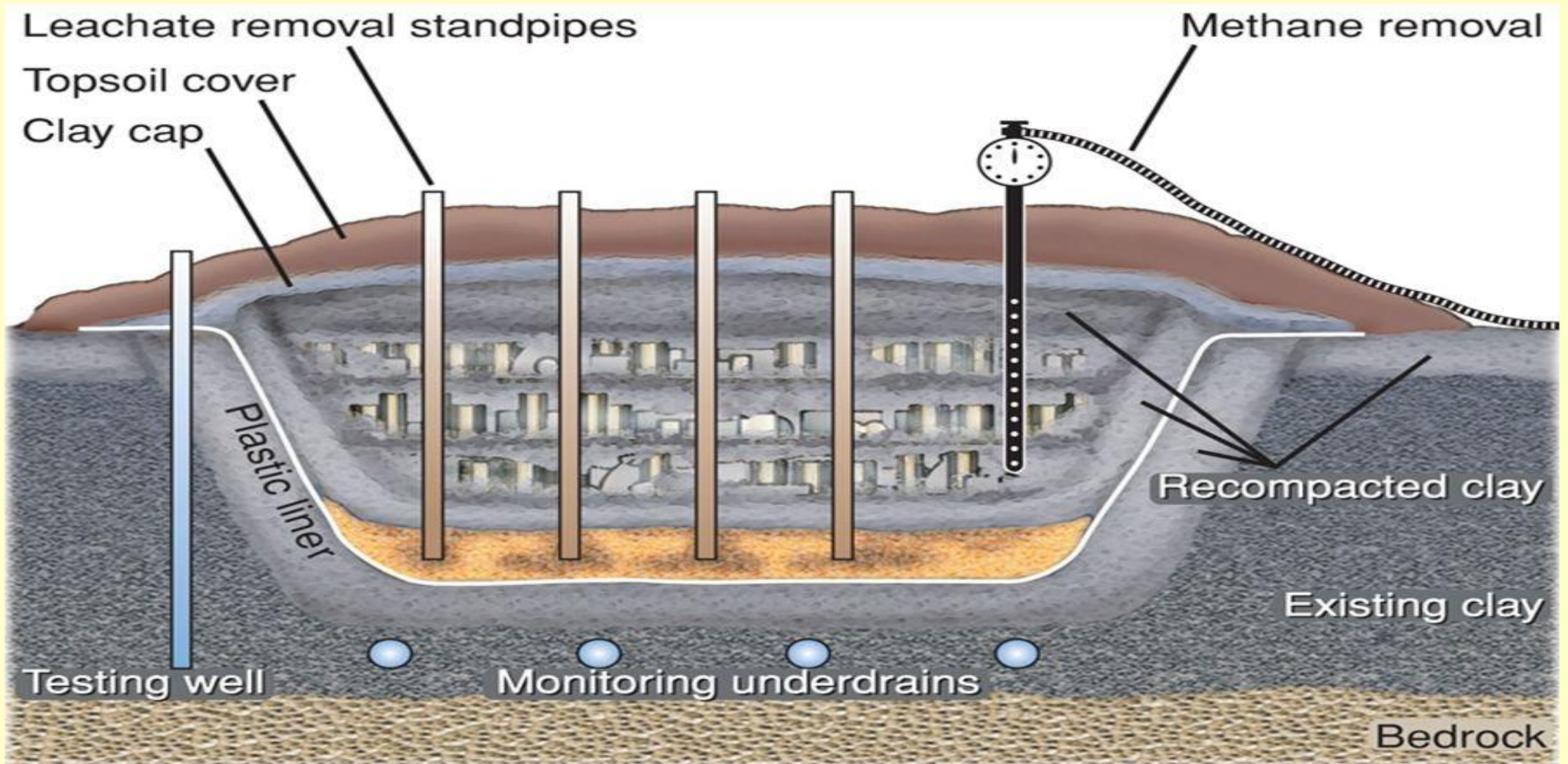
Open Dump



Sanitary Landfill:



Secure Landfills



Examples of Hazardous Waste Landfills

Chromium Sludge Disposal Site

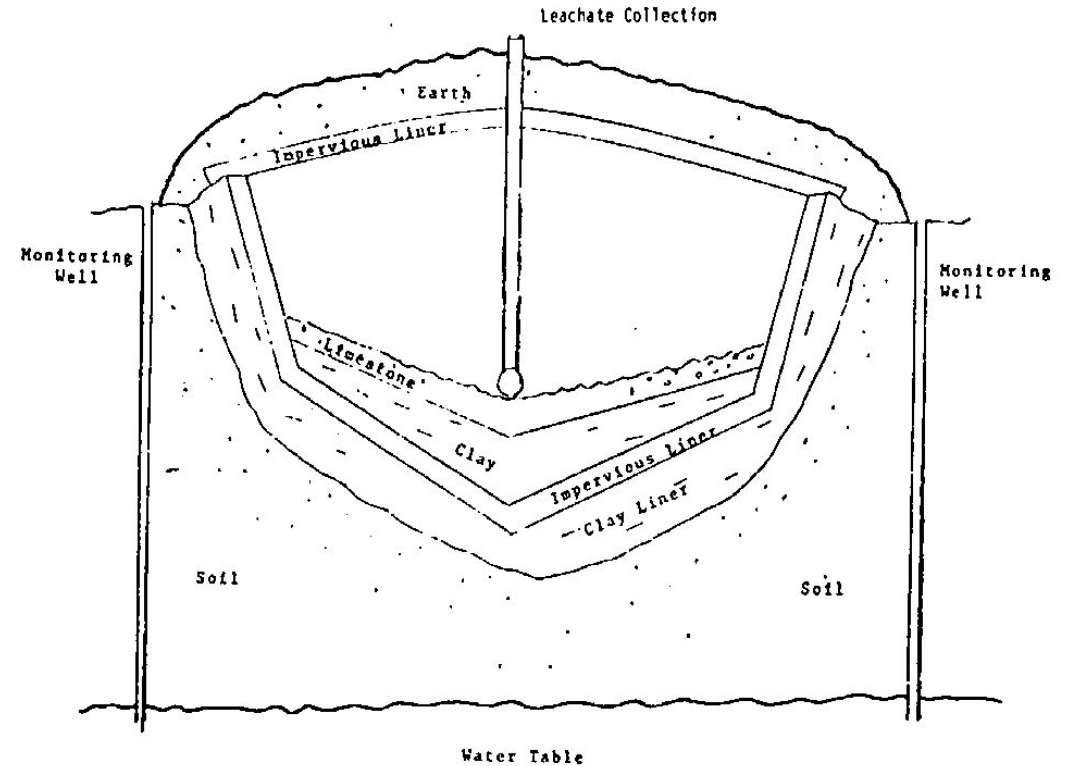
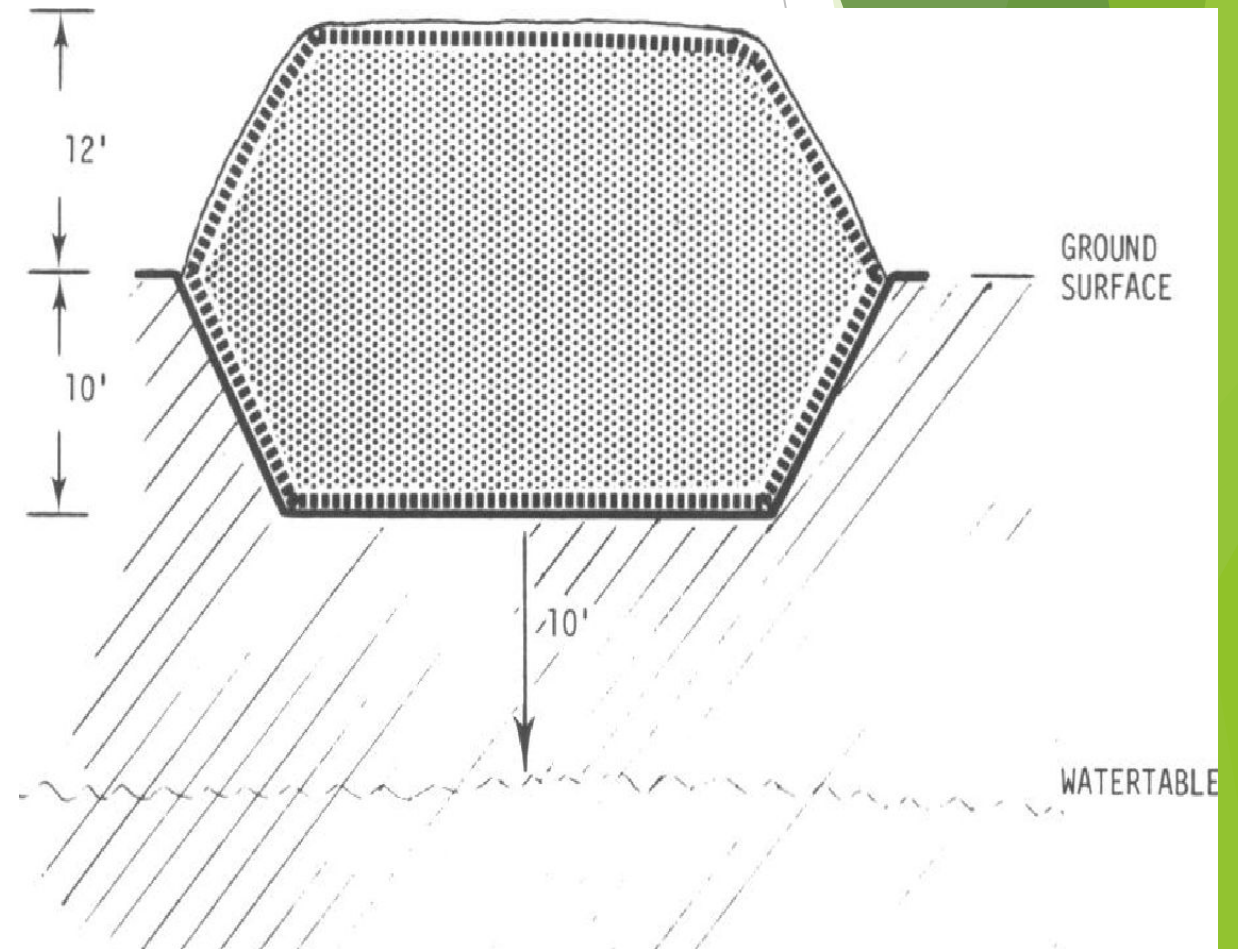


FIGURE 1. Secure landfill. Data of Farb (4).

Examples of Hazardous Waste Landfills

Battery Waste Disposal Site

Cross-sectional view of solid hazardous waste disposal landfill located in the northeastern U. S.



Examples of Hazardous Waste Landfills

- ▶ Disposal in Concrete Silos



Environmental Problems Associated with Hazardous Waste Landfills



Summary

- ▶ There is a great deal of variability in design and operating parameters such as siting requirements, landfill design, and types of wastes accepted.
- ▶ Common problems with landfill disposal systems are leachate control, inadequacy of existing monitoring systems, eventual barrier failure, and difficulties in subsurface barrier repair.
- ▶ More research and development on landfill disposal is needed.