




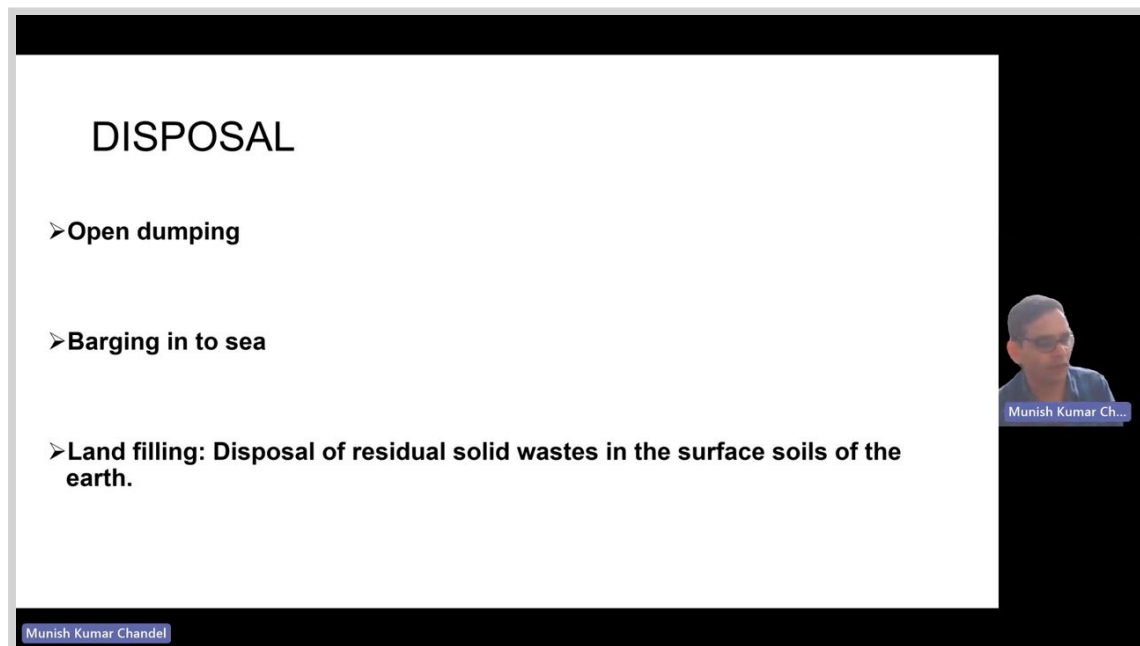
00:02



DISPOSAL

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00:24



DISPOSAL

- Open dumping
- Barging in to sea
- Land filling: Disposal of residual solid wastes in the surface soils of the earth.

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02:45

Why Landfill

Unmanaged and uncontrolled, solid wastes openly dumped on the land:

- Generate liquid and gaseous emissions (leachate and landfill gas) that can pollute the environment >
- Represent a breeding ground for disease-bearing animals and microorganisms
- Other risks to the public health and safety and to the environment



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Sanitary Landfill

- Controlled disposal of waste on the land.
- Controls the exposure of the environment and humans to the detrimental effects of solid wastes placed on the land.
- Disposal is accomplished in a way such that contact between wastes and the environment is significantly reduced, and wastes are concentrated in a well defined area.
- Good control of landfill gas and leachate, and limited access of vectors (e.g., rodents, flies, etc.) to the wastes



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Sanitary Landfill

Components

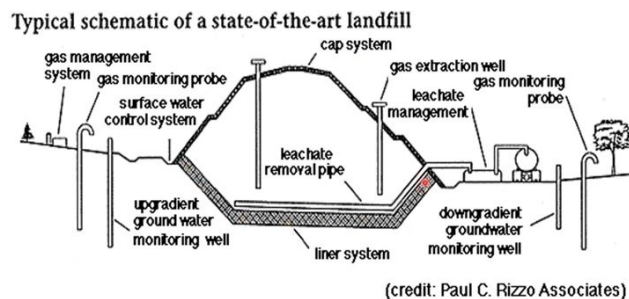
- LINER SYSTEM
- CAP SYSTEM
- GAS MANAGEMENT SYSTEM
 - Gas collection, treatment, flaring etc.
- LEACHATE MANAGEMENT SYSTEM
 - Leachate collection and treatment system
- MONITORING SYSTEMS:
 - Water: Ground water monitoring system
 - Air: Air monitoring system



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Sanitary Landfill



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Landfill operation



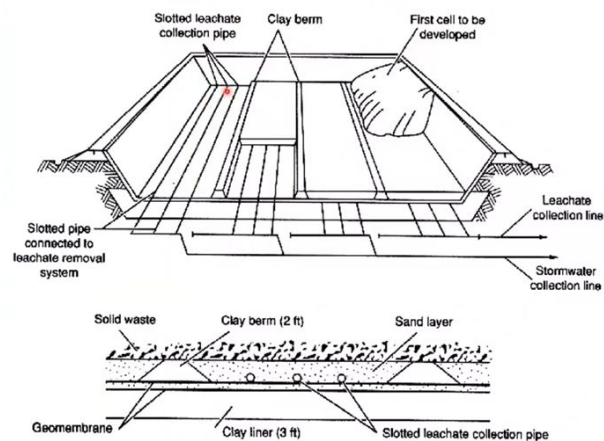
Source:
http://commons.wikimedia.org/wiki/File:Landfill_Hawaii.jpg#

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Leachate Collection System



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09:11

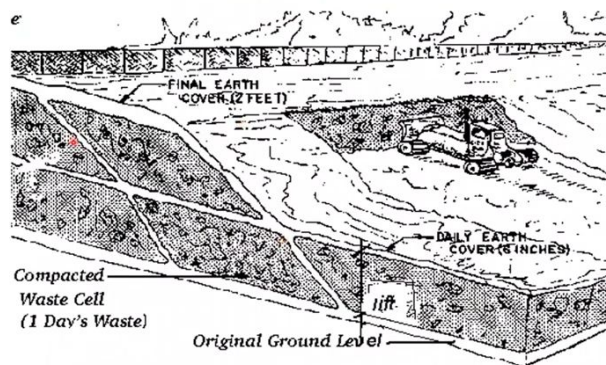
Dump truck



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Landfill Cell



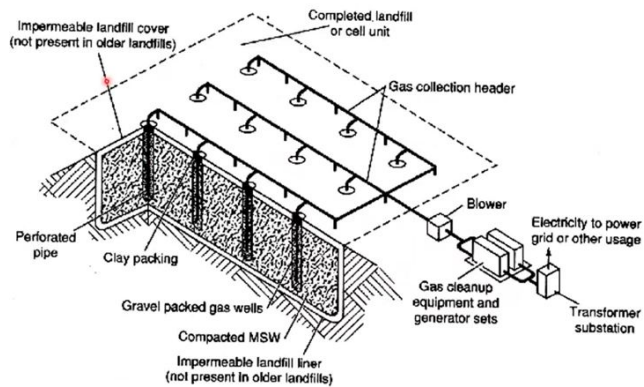
Source:
http://earthsci.org/education/teacher/basicgeol/solid_waste/solid_waste.html



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Vertical Piping System for Landfill Gas Collection



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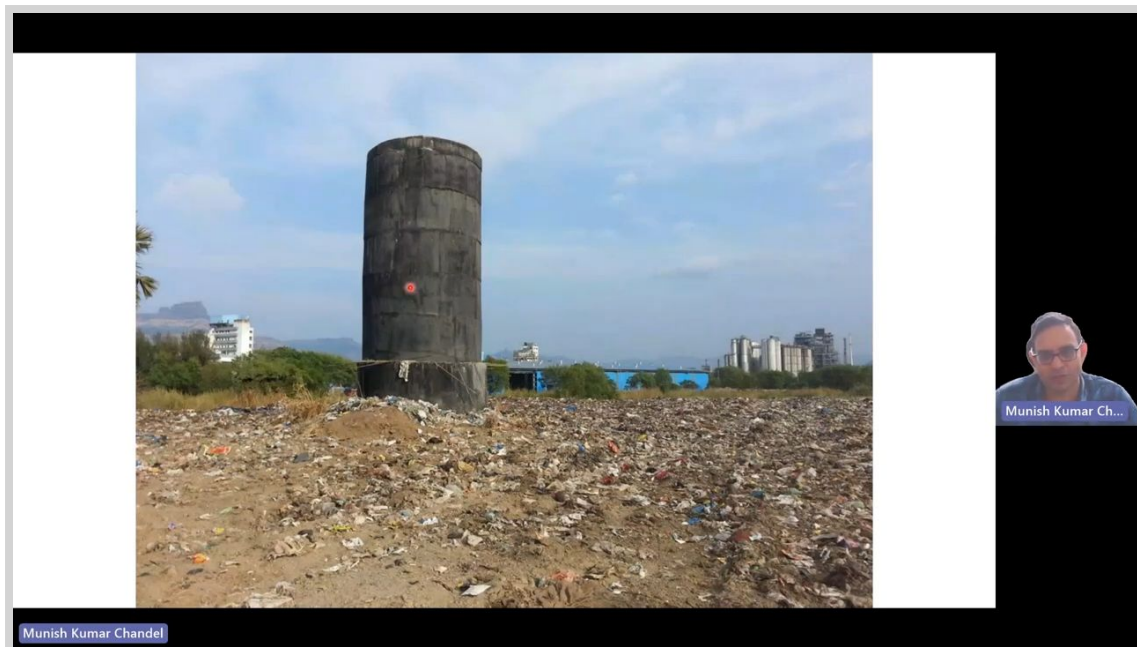
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POSTCLOSURE CARE

Activities associated with the long-term monitoring and maintenance of the landfill

(typically 30-50 years).

MSW rules 2016 recommends at least **fifteen years**

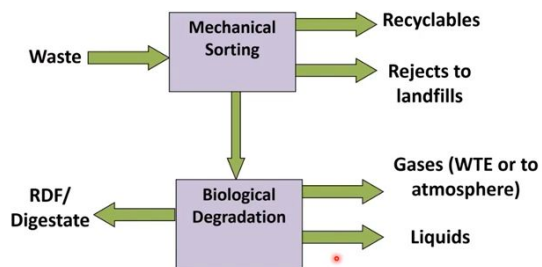
Restored landfill: Can be converted to recreational parks, gardens etc..

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14:01

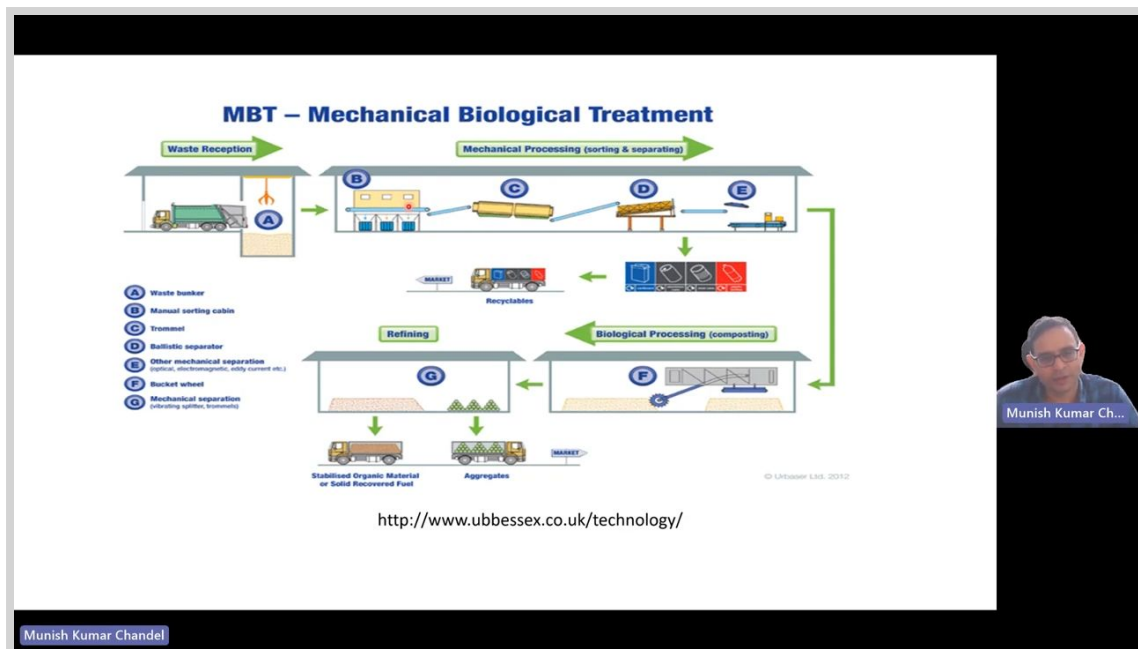
MBT– Mechanical Biological Treatment



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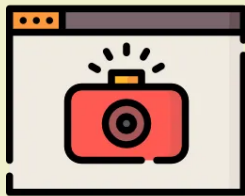
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