Waste Commission of Scott County

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SCOTT AREA LANDFILL

LANDFILL STRUCTURE

The current landfill was opened in 1995 and is comprised of eight-six acre cells (48 acres). It was built to EPA's Subtitle D specifications, which required additional lining inside the landfill and financial assurance to care for it for 30 years after closure. The structure of the landfill is as follows, from top to bottom:

- Daily Cover (six inches of soil or an alternative cover approvedby DNR)
- Soft Garbage
- Protective Layer (foundry sand, shredded tires, select shredder fluff)
- Filter Fabric
- Plastic (HDPE overlapping sheets that are 16-20 feet wide)
- Clay (two feet of re-compacted clay, built in eight inch lifts)
- Limestone
- Bedrock

ADDITIONAL BEST PRACTICES

Methane

Methane, the gas produced by the decomposition of garbage, is collected to prevent it from escaping into the atmosphere. The methane is then used by Linwood Mining to fire their limestone-drying kilns.

Leachate

In the low points of the cells, draining systems are in place to collect leachate, the liquid produced by the decomposition of garbage. The leachate is stored in a 100,000-gallon tank and is re-circulated to hasten the bio-degradation process and methane production.

Groundwater

Storm water is collected in a retention pond and tested before it is sent off-site.