Spraying
Spraying

- Advantages
  - Low cost
  - Immediate implementation
  - Simple
  - Good distribution if done consistently

- Disadvantages
  - Potential odors
  - Can only be used while landfill is operating
Vertical Well

DSWA Sandtown Landfill: Typical Cross-Section - Area D Recirculation Well
(Constructed Between 1992 and 1999)
Vertical Wells

■ Advantages
  – Moderate cost
  – Wells can be implemented relatively quickly
  – Can be implemented and used after landfill cell is completed

■ Disadvantages
  – Potential flooding of LFG wells
  – Limited distribution
Leach Field

DSWA Sandtown Landfill: Area D: Typical Cross-Section - Area D Leach Field (1998)
Leach Field

- **Advantages**
  - Can be implemented and used after landfill cell is completed

- **Disadvantages**
  - Need to wait until landfill cell is complete
Horizontal Well

- Remove Intermediate Cover
- Place & Compact Excavated Waste Over Trench to Prevent Short Circuiting of Leachate Via Intermediate Cover
- Intermediate Cover (Typ)
- 6" Perforated HDPE Pipe
- 3" Del Dot No. 2 Stone
- 6" EXIST MSW
- Horizontal Injection Trench Section
Horizontal Wells

■ Advantages
  - Ability to recirculate significant quantities
  - Can be used after landfill cell is completed

■ Disadvantages
  - Costs
  - Complicated
Potential Undesirable Impacts

- Increased LFG Generation
- Odors
- Flooding LFG Wells
- Leachate Seeps
- Loss of Air Space
Loss of Airspace?
Loss of Airspace?
Loss of Airspace?
Loss of Airspace?
Lands of the Delaware Solid Waste Authority at the Central Solid Waste Management Center in Sandtown, Delaware

<table>
<thead>
<tr>
<th></th>
<th>Acres</th>
<th>Hectares</th>
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<tbody>
<tr>
<td>Kent County Tracts A&amp;B</td>
<td>84.56</td>
<td>34.22</td>
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<tr>
<td>Kalish Tract</td>
<td>298.88</td>
<td>120.87</td>
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<tr>
<td>Roe Tract</td>
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<td>Dixon Tract</td>
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<td>Dept. of Transportation Tract</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>771.26</strong></td>
<td><strong>312.12</strong></td>
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</tbody>
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 Kant County, Delaware

Kent County Tract A

Kalish Tract

Area A/B

Area C

Area D

Area E

Kent County Tract B

Roe Tract

DOT Tract

Dixon Tract

Thomas Tract