

---

# Soils Report

---

**Contact your local District Conservationist for site specific assistance**

## **Sanitary Landfill (Trench) - Dominant Condition**

Sanitary landfills are areas where solid waste is disposed of by burying it in soil. There are two types of landfills -- trench and area. In a trench landfill, the waste is placed in a trench. It is spread, compacted, and covered daily with a thin layer of soil excavated at the site. In an area landfill, the waste is placed in successive layers on the surface of the soil. The waste is spread, compacted, and covered daily with a thin layer of soil from a source away from the site.

Both types of landfill must be able to bear heavy vehicular traffic. Both types involve a risk of ground-water pollution. Ease of excavation and revegetation should be considered.

The ratings are based on soil properties, site features, and observed performance of the soils. Permeability, depth to bedrock or to a cemented pan, a high water table, slope, and flooding affect both types of landfill. Texture, stones and boulders, highly organic layers, soil reaction, and content of salts and sodium affect trench landfills. Unless otherwise stated, the ratings apply only to that part of the soil within a depth of about 6 feet. For deeper trenches, a limitation rated slight or moderate may not be valid. Onsite investigation is needed.

The limitations are considered not limiting if soil properties and site features are generally favorable for the indicated use and limitations are minor and easily overcome; somewhat limiting if soil properties or site features are not favorable for the indicated use and special planning, design, or maintenance is needed to overcome or minimize the limitations; and very limiting if soil properties or site features are so unfavorable or so difficult to overcome that special design, significant increases in construction costs, and possibly increased maintenance are required.

## **Soil Survey: Knott and Letcher Counties, Kentucky**

**Survey Status:** -

**Correlation Date:** 03/01/1997

**Distribution Date:** 12/08/2004

### **Map**

<b>Symbol</b>	<b>Soil Name</b>	<b>Rating</b>	<b>Dominant Component(s) and Reason(s)</b>
AIC	Allegheny loam, 2 to 15 percent slopes	Somewhat limited	Component - Allegheny (80%) • Slope
AtF	Alticrest-Ramsey-Wallen complex, 20 to 55 percent slopes, rocky	Very limited	Component - Alticrest (35%) • Slope • Depth to bedrock • Seepage Component - Ramsey (30%) • Slope • Depth to bedrock • Seepage Component - Wallen (20%) • Slope • Depth to bedrock • Seepage
BcG	Berks-Caneyville	Very limited	Component - Berks (50%)

	complex, 50 to 120 percent slopes, very rocky		<ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> </ul>
CbF	Caneyville-Renox-Bledsoe complex, 50 to 80 percent slope, extremely stony	Very limited	<ul style="list-style-type: none"> <li>Component - Caneyville (20%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> <li>Component - Caneyville (30%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> <li>Component - Renox (30%)</li> <li>• Slope</li> <li>• Too clayey</li> <li>Component - Bledsoe (25%)</li> <li>• Slope</li> <li>• Too clayey</li> </ul>
CgF	Cloverlick-Guyandotte-Highsplint complex, 35 to 80 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>Component - Cloverlick (45%)</li> <li>• Slope</li> <li>Component - Guyandotte (20%)</li> <li>• Slope</li> <li>Component - Highsplint (20%)</li> <li>• Slope</li> </ul>
CkF	Cloverlick-Kimper-Highsplint complex, 30 to 65 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>Component - Kimper (30%)</li> <li>• Slope</li> <li>Component - Cloverlick (30%)</li> <li>• Slope</li> <li>Component - Highsplint (20%)</li> <li>• Slope</li> </ul>
CsF	Cloverlick-Shelocta-Kimper complex, 20 to 70 percent slopes, stony	Very limited	<ul style="list-style-type: none"> <li>Component - Shelocta (30%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>Component - Cloverlick (30%)</li> <li>• Slope</li> <li>Component - Kimper (20%)</li> <li>• Slope</li> </ul>
DAM	Dam, large earthen	Not rated	<ul style="list-style-type: none"> <li>Component - Dam (100%)</li> <li>• Not rated; Slope</li> <li>• Not rated; SAR</li> <li>• Not rated; pH</li> <li>• Not rated</li> </ul>
DgF	Dekalb-Gilpin-Marrowbone complex, 20 to 80 percent slopes, very rocky	Very limited	<ul style="list-style-type: none"> <li>• Not rated; Fragments &gt; 75mm</li> <li>Component - Dekalb (35%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>Component - Gilpin (25%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> </ul>

DrF	Dekalb-Gilpin-Rayne complex, 25 to 65 percent slopes, very rocky	Very limited	<ul style="list-style-type: none"> <li>Component - Marrowbone (15%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>Component - Dekalb (40%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>Component - Rayne (20%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> <li>Component - Gilpin (20%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> </ul>
FaF	Feds creek-Shelocta-Handshoe complex, 30 to 80 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>Component - Shelocta (30%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>Component - Feds creek (30%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>Component - Handshoe (25%)</li> <li>• Slope</li> <li>• Seepage</li> </ul>
FkE	Fiveblock and Kaymine soils, 0 to 30 percent slopes, stony	Very limited	<ul style="list-style-type: none"> <li>Component - Fiveblock (40%)</li> <li>• Seepage</li> <li>• Slope</li> <li>Component - Kaymine (40%)</li> <li>• Slope</li> <li>• Seepage</li> </ul>
GID	Gilpin-Shelocta complex, 12 to 25 percent slopes	Very limited	<ul style="list-style-type: none"> <li>Component - Gilpin (40%)</li> <li>• Depth to bedrock</li> <li>• Slope</li> <li>• Too clayey</li> <li>Component - Shelocta (35%)</li> <li>• Depth to bedrock</li> <li>• Slope</li> </ul>
GmF	Gilpin-Summers-Kimper complex, 20 to 55 percent slopes, very stony	Very limited	<ul style="list-style-type: none"> <li>Component - Gilpin (30%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> <li>Component - Summers (25%)</li> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>• Content of large stones</li> <li>Component - Kimper (20%)</li> <li>• Slope</li> </ul>

Gr	Grigsby sandy loam, occasionally flooded	Very limited	<p>Component - Grigsby (85%)</p> <ul style="list-style-type: none"> <li>• Flooding</li> <li>• Depth to saturated zone</li> <li>• Seepage</li> </ul>
GuB	Grigsby-Urban land complex, 0 to 6 percent slopes, occasionally flooded	Very limited	<p>Component - Grigsby (65%)</p> <ul style="list-style-type: none"> <li>• Flooding</li> <li>• Depth to saturated zone</li> <li>• Seepage</li> </ul>
HaF	Handshoe-Fedscreek-Marrowbone complex, 30 to 80 percent slopes, very stony	Very limited	<p>Component - Handshoe (35%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> <p>Component - Fedscreek (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> </ul> <p>Component - Marrowbone (15%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> </ul>
HeF	Helechawa-Varilla-Jefferson complex, 35 to 75 percent slopes, very rocky	Very limited	<p>Component - Helechawa (27%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> </ul> <p>Component - Varilla (27%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Too Sandy</li> <li>• Content of large stones</li> </ul> <p>Component - Jefferson (20%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul>
HsF	Highsplint-Shelocta-Dekalb complex, 35 to 80 percent slopes, very stony	Very limited	<p>Component - Highsplint (35%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Shelocta (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>• Too clayey</li> </ul> <p>Component - Dekalb (15%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> </ul>
HtF	Highsplint-Shelocta-Muse complex, 30 to 80 percent slopes, extremely stony	Very limited	<p>Component - Highsplint (30%)</p> <ul style="list-style-type: none"> <li>• Slope</li> </ul> <p>Component - Shelocta (25%)</p> <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> <li>• Too clayey</li> </ul> <p>Component - Muse (15%)</p>

Hy	Holly loam, frequently flooded	Very limited	<ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Too clayey</li> </ul> Component - Holly (85%) <ul style="list-style-type: none"> <li>• Flooding</li> <li>• Depth to saturated zone</li> <li>• Seepage</li> </ul>
ImF	Itmann very channery sandy loam, 4 to 80 percent slopes	Very limited	Component - Itmann (90%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul>
KfF	Kaymine, Fairpoint, and Fiveblock soils, benched, 2 to 70 percent slopes, very stony	Very limited	Component - Kaymine (40%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Fairpoint (20%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Too clayey</li> </ul> Component - Fiveblock (15%) <ul style="list-style-type: none"> <li>• Seepage</li> <li>• Slope</li> </ul>
KrF	Kimper-Cloverlick-Renox complex, 30 to 80 percent slopes, extremely stony	Very limited	Component - Kimper (30%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Cloverlick (25%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> </ul> Component - Renox (20%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Too clayey</li> </ul>
Pt	Pits, quarries	Not rated	Component - Pits, quarries (100%) <ul style="list-style-type: none"> <li>• Not rated; Slope</li> <li>• Not rated; SAR</li> <li>• Not rated; pH</li> <li>• Not rated</li> <li>• Not rated; Fragments &gt; 75mm</li> </ul>
RgB	Rowdy-Grigsby complex, 0 to 4 percent slopes, occasionally flooded	Very limited	Component - Rowdy (45%) <ul style="list-style-type: none"> <li>• Flooding</li> <li>• Seepage</li> </ul> Component - Grigsby (35%) <ul style="list-style-type: none"> <li>• Flooding</li> <li>• Depth to saturated zone</li> <li>• Seepage</li> </ul>
ShF	Shelocta-Highsplint complex, 30 to 65 percent slopes, very stony	Very limited	Component - Shelocta (55%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> </ul> Component - Highsplint (25%) <ul style="list-style-type: none"> <li>• Slope</li> </ul>
SmF	Shelocta-Muse complex, 15 to 50 percent slopes, very stony	Very limited	Component - Shelocta (45%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> <li>• Seepage</li> </ul>

UdE	Udorthents-Urban land complex, steep	Not rated	<ul style="list-style-type: none"> <li>• Too clayey</li> </ul> Component - Muse (35%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> </ul> <ul style="list-style-type: none"> <li>• Too clayey</li> </ul> Component - Udorthents (60%) <ul style="list-style-type: none"> <li>• Not rated; pH</li> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> <li>• Slope</li> </ul> Component - Urban land (25%) <ul style="list-style-type: none"> <li>• Not rated; SAR</li> <li>• Not rated; pH</li> <li>• Not rated</li> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul>
UrC	Urban land-Udorthents complex, 0 to 15 percent slopes	Not rated	Component - Urban land (60%) <ul style="list-style-type: none"> <li>• Not rated; SAR</li> <li>• Not rated; pH</li> <li>• Not rated</li> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul> Component - Udorthents (25%) <ul style="list-style-type: none"> <li>• Not rated; pH</li> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul>
UuB	Urban land-Udorthents-Grigsby complex, 0 to 6 percent slopes, rarely flooded	Not rated	Component - Urban land (40%) <ul style="list-style-type: none"> <li>• Not rated; SAR</li> <li>• Not rated; pH</li> <li>• Not rated</li> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul> Component - Udorthents (30%) <ul style="list-style-type: none"> <li>• Not rated; pH</li> <li>• Not rated; Fragments &gt; 75mm</li> <li>• Not rated; Minerology class</li> </ul>
VaF	Varilla-Jefferson-Alticrest complex, 35 to 75 percent slopes, very rocky	Very limited	Component - Varilla (40%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Seepage</li> <li>• Content of large stones</li> </ul> Component - Jefferson (25%) <ul style="list-style-type: none"> <li>• Slope</li> </ul> Component - Alticrest (15%) <ul style="list-style-type: none"> <li>• Slope</li> <li>• Depth to bedrock</li> </ul>
W	Water	Not rated	Component - Water (100%) <ul style="list-style-type: none"> <li>• Not rated; Slope</li> <li>• Not rated; SAR</li> <li>• Not rated; pH</li> </ul>

- Not rated
- Not rated; Fragments > 75mm