

Table ENG-4. - Building Site Development

Augusta County, Virginia

The information in this table indicates the dominant soil condition, but does not eliminate the need for onsite investigation. The numbers in the value column range from 0.01 to 1.00. The larger the value, the greater the potential limitation. Limiting features in this report are limited to the top 5 limitations. Additional limitations may exist.

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
1B:							
Allegheny	85	Somewhat limited Low strength	0.78	Very limited Cutbanks cave	1.00	Not limited	
2B:							
Allegheny	85	Somewhat limited Low strength	0.22	Very limited Cutbanks cave	1.00	Somewhat limited Content of large stones	0.84
3B:							
Allegheny	45	Somewhat limited Low strength	0.78	Very limited Cutbanks cave	1.00	Not limited	
Cotaco	40	Somewhat limited Depth to saturated zone	0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Somewhat limited Depth to saturated zone	0.19
Purdy		Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
3C:							
Allegheny	50	Somewhat limited Low strength Slope	0.78 0.37	Very limited Cutbanks cave Slope	1.00 0.37	Somewhat limited Slope	0.37
Cotaco	35	Somewhat limited Slope Depth to saturated zone	0.37 0.19	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 0.37 0.10	Somewhat limited Slope Depth to saturated zone	0.37 0.19
Wet Spots		Not Rated		Not Rated		Not Rated	
4B:							
Allegheny	40	Not limited		Very limited Cutbanks cave	1.00	Somewhat limited Content of large stones	0.84
Cotaco	40	Somewhat limited Low strength Depth to saturated zone	0.22 0.19	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Very limited Content of large stones Depth to saturated zone	1.00 0.19
Purdy		Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
4B:							
Wet Spots		Not Rated		Not Rated		Not Rated	
4C:							
Allegheny	50	Somewhat limited Slope	0.37	Very limited Cutbanks cave Slope	1.00 0.37	Somewhat limited Content of large stones Slope	0.84 0.37
Cotaco	35	Somewhat limited Slope Low strength Depth to saturated zone	0.37 0.22 0.19	Very limited Depth to saturated zone Slope Cutbanks cave	1.00 0.37 0.10	Very limited Content of large stones Slope Depth to saturated zone	1.00 0.37 0.19
Wet Spots		Not Rated		Not Rated		Not Rated	
5:							
Aqualfs	85	Very limited Depth to saturated zone Low strength Ponding	1.00 1.00 1.00	Very limited Depth to saturated zone Ponding Cutbanks cave	1.00 1.00 0.10	Not Rated	
6:							
Aquents	85	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone Cutbanks cave	1.00 0.10	Not Rated	
7:							
Atkins	95	Very limited Depth to saturated zone Frost action Flooding	1.00 1.00 1.00	Very limited Depth to saturated zone Flooding Cutbanks cave	1.00 0.60 0.10	Very limited Depth to saturated zone Flooding	1.00 0.60
8D:							
Berks	70	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.46 0.10	Very limited Slope Droughty Depth to bedrock	1.00 0.91 0.46
Wet Spots		Not Rated		Not Rated		Not Rated	
8E:							
Berks	70	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.46 0.10	Very limited Slope Droughty Depth to bedrock	1.00 0.91 0.46

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
8E:							
Wet Spots		Not Rated		Not Rated		Not Rated	
8F:							
Berks	75	Very limited Slope	1.00	Very limited Slope Depth to soft bedrock Cutbanks cave	1.00 0.46 0.10	Very limited Slope Droughty Depth to bedrock	1.00 0.91 0.46
9B2:							
Berks	55	Not limited		Somewhat limited Depth to soft bedrock Cutbanks cave	0.46 0.10	Somewhat limited Droughty Depth to bedrock Gravel content	0.91 0.46 0.39
Weikert	25	Somewhat limited Depth to soft bedrock Frost action	1.00 0.50	Very limited Depth to soft bedrock Cutbanks cave	1.00 0.10	Very limited Depth to bedrock Droughty Gravel content	1.00 1.00 1.00
Wet Spots		Not Rated		Not Rated		Not Rated	
9C2:							
Berks	55	Somewhat limited Slope	0.37	Somewhat limited Depth to soft bedrock Slope Cutbanks cave	0.46 0.37 0.10	Somewhat limited Droughty Depth to bedrock Gravel content	0.91 0.46 0.39
Weikert	25	Somewhat limited Depth to soft bedrock Frost action Slope	1.00 0.50 0.37	Very limited Depth to soft bedrock Slope Cutbanks cave	1.00 0.37 0.10	Very limited Depth to bedrock Droughty Gravel content	1.00 1.00 1.00
10B2:							
Bookwood	70	Somewhat limited Low strength Frost action	0.78 0.50	Very limited Cutbanks cave Depth to soft bedrock Depth to hard bedrock	1.00 0.46 0.38	Somewhat limited Depth to bedrock Droughty	0.46 <0.01
10C2:							
Bookwood	70	Somewhat limited Low strength Frost action Slope	0.78 0.50 0.37	Very limited Cutbanks cave Depth to soft bedrock Depth to hard bedrock	1.00 0.46 0.38	Somewhat limited Depth to bedrock Slope Droughty	0.46 0.37 <0.01
Wet Spots		Not Rated		Not Rated		Not Rated	
10D2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
10D2:							
Bookwood	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	0.78	Cutbanks cave	1.00	Depth to bedrock	0.46
		Frost action	0.50	Depth to soft bedrock	0.46	Droughty	<0.01
10E2:							
Bookwood	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	0.78	Cutbanks cave	1.00	Depth to bedrock	0.46
		Frost action	0.50	Depth to soft bedrock	0.46	Droughty	<0.01
11A:							
Buchanan	80	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to thin cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.48	Depth to saturated zone	1.00	Depth to saturated zone	0.48
				Cutbanks cave	0.10	Droughty	0.47
Purdy		Not Rated		Not Rated		Not Rated	
11B:							
Buchanan	80	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to thin cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.48	Depth to saturated zone	1.00	Depth to saturated zone	0.48
				Cutbanks cave	0.10	Droughty	0.47
Purdy		Not Rated		Not Rated		Not Rated	
12B:							
Buchanan	80	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to thin cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.48	Depth to saturated zone	1.00	Depth to saturated zone	0.48
				Cutbanks cave	0.10	Droughty	0.47
Purdy		Not Rated		Not Rated		Not Rated	
13C:							
Buchanan	45	Somewhat limited		Very limited		Very limited	
		Frost action	0.50	Depth to thin cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.48	Depth to saturated zone	1.00	Depth to saturated zone	0.48
		Slope	0.37	Slope	0.37	Droughty	0.47

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
13C:							
Monongahela	35	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to cemented pan	0.64
		Frost action	0.50	Depth to saturated zone	1.00	Slope	0.37
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.03
Purdy		Not Rated		Not Rated		Not Rated	
14:							
Buckton	85	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Wet Spots		Not Rated		Not Rated		Not Rated	
15B:							
Burketown	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Depth to dense layer	0.50	Depth to cemented pan	0.16
				Depth to thin cemented pan	0.16		
Flooded Soils		Not Rated		Not Rated		Not Rated	
15C:							
Burketown	85	Somewhat limited		Very limited		Somewhat limited	
		Frost action	0.50	Depth to saturated zone	1.00	Slope	0.37
		Slope	0.37	Depth to dense layer	0.50	Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Slope	0.37	Depth to cemented pan	0.16
16E:							
Cataska	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Slope	1.00	Droughty	1.00
16F:							
Cataska	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Slope	1.00	Droughty	1.00
17E:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
17E:							
Cataska	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Depth to soft bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.90	Slope	1.00	Content of large stones	1.00
18:							
Chagrin	80	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Flooding	0.60	Flooding	0.60
		Frost action	0.50	Depth to saturated zone	0.15		
				Cutbanks cave	0.10		
Fluvaquents		Not Rated		Not Rated		Not Rated	
19:							
Chavies	70	Somewhat limited		Very limited		Not limited	
		Flooding	0.40	Cutbanks cave	1.00		
20B2:							
Chilhowie	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Depth to bedrock	0.97
		Shrink-swell	1.00	Cutbanks cave	0.10	Droughty	0.69
		Depth to hard bedrock	0.97			Content of large stones	<0.01
Wet Spots		Not Rated		Not Rated		Not Rated	
20C2:							
Chilhowie	75	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Depth to bedrock	0.97
		Shrink-swell	1.00	Slope	0.37	Droughty	0.69
		Depth to hard bedrock	0.97	Cutbanks cave	0.10	Slope	0.37
Wet Spots		Not Rated		Not Rated		Not Rated	
21B3:							
Chilhowie	80	Very limited		Very limited		Very limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Depth to bedrock	0.97
		Depth to hard bedrock	0.97			Gravel content	0.13
Wet Spots		Not Rated		Not Rated		Not Rated	
21C3:							
Chilhowie	80	Very limited		Very limited		Very limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Droughty	1.00
		Shrink-swell	1.00	Slope	0.37	Depth to bedrock	0.97
		Depth to hard bedrock	0.97	Cutbanks cave	0.10	Slope	0.37

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
21C3:							
Wet Spots		Not Rated		Not Rated		Not Rated	
21D3:							
Chilhowie	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Low strength	1.00	Slope	1.00	Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Depth to bedrock	0.97
Wet Spots		Not Rated		Not Rated		Not Rated	
21E3:							
Chilhowie	80	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Low strength	1.00	Slope	1.00	Droughty	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Depth to bedrock	0.97
Wet Spots		Not Rated		Not Rated		Not Rated	
22B2:							
Chilhowie	40	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Depth to bedrock	0.97
		Shrink-swell	1.00	Too clayey	1.00	Droughty	0.69
		Depth to hard bedrock	0.97	Cutbanks cave	0.10	Content of large stones	<0.01
Edom	40	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Wet Spots		Not Rated		Not Rated		Not Rated	
22C2:							
Chilhowie	40	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Depth to bedrock	0.97
		Shrink-swell	1.00	Too clayey	1.00	Droughty	0.69
		Depth to hard bedrock	0.97	Slope	0.37	Slope	0.37
Edom	40	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Too clayey	0.28		
		Frost action	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
22D2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
22D2:							
Chilhowie	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Low strength	1.00	Slope	1.00	Depth to bedrock	0.97
		Shrink-swell	1.00	Too clayey	1.00	Droughty	0.69
Edom	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
23C3:							
Chilhowie	40	Very limited		Very limited		Very limited	
		Low strength	1.00	Depth to hard bedrock	1.00	Droughty	1.00
		Shrink-swell	1.00	Too clayey	1.00	Depth to bedrock	0.97
		Depth to hard bedrock	0.97	Slope	0.37	Slope	0.37
Edom	40	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Too clayey	0.28	Gravel content	0.08
		Frost action	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
23E3:							
Chilhowie	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Low strength	1.00	Slope	1.00	Droughty	1.00
		Shrink-swell	1.00	Too clayey	1.00	Depth to bedrock	0.97
Edom	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28	Gravel content	0.08
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
24B2:							
Christian	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
24C2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
24C2:							
Christian	70	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Shrink-swell	0.50	Slope	0.37		
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
24D2:							
Christian	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
24E2:							
Christian	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
25C2:							
Christian	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Gravel content	0.90
		Shrink-swell	0.50	Slope	0.37	Slope	0.37
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
25D2:							
Christian	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50	Gravel content	0.90
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
26:							
Cotaco Variant	75	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.75
		Depth to saturated zone	0.75	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Purdy		Not Rated		Not Rated		Not Rated	
27:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
27:							
Craigsville	85	Very limited		Very limited		Very limited	
		Flooding	1.00	Cutbanks cave	1.00	Flooding	1.00
		Content of large stones	0.79	Flooding	0.80	Content of large stones	<0.01
		Frost action	0.50	Content of large stones	0.79		
Wet Spots		Not Rated		Not Rated		Not Rated	
28:							
Craigsville	75	Very limited		Very limited		Very limited	
		Flooding	1.00	Cutbanks cave	1.00	Flooding	1.00
		Content of large stones	0.95	Content of large stones	0.95	Content of large stones	1.00
		Frost action	0.50	Flooding	0.80	Droughty	0.01
Wet Spots		Not Rated		Not Rated		Not Rated	
29E:							
Drall	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.74
				Depth to hard bedrock	0.01	Content of large stones	0.61
29F:							
Drall	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.74
				Depth to hard bedrock	0.01	Content of large stones	0.61
30B2:							
Edom	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
30C2:							
Edom	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Too clayey	0.28		
		Frost action	0.50	Cutbanks cave	0.10		
30D2:							
Edom	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
31B3:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
31B3:							
Edom	80	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
31C3:							
Edom	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Too clayey	0.28		
		Frost action	0.50	Cutbanks cave	0.10		
32C2:							
Edom	55	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
Rock Outcrop	30	Not Rated		Not Rated		Not Rated	
32E2:							
Edom	55	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Rock Outcrop	30	Not Rated		Not Rated		Not Rated	
33E:							
Elliber	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	1.00
						Content of large stones	0.03
34F:							
Elliber	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	1.00
						Content of large stones	0.03
Jefferson	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Content of large stones	1.00

35B2:

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
35B2:							
Endcav	80	Very limited		Very limited		Not limited	
		Low strength	1.00	Too clayey	1.00		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Wet Spots		Not Rated		Not Rated		Not Rated	
35C2:							
Endcav	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Too clayey	1.00	Slope	0.37
		Shrink-swell	1.00	Slope	0.37		
		Frost action	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
36B2:							
Endcav	80	Very limited		Very limited		Not limited	
		Low strength	1.00	Too clayey	1.00		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Wet Spots		Not Rated		Not Rated		Not Rated	
37C2:							
Endcav	45	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Too clayey	1.00	Slope	0.04
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Slope	0.04		
Rock Outcrop	40	Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
38B:							
Ernest	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to cemented pan	0.79
		Depth to saturated zone	0.75	Depth to thin cemented pan	0.79	Depth to saturated zone	0.75
		Shrink-swell	0.50	Cutbanks cave	0.10	Droughty	<0.01
Wet Spots		Not Rated		Not Rated		Not Rated	
38C:							
Ernest	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Depth to saturated zone	1.00	Depth to cemented pan	0.79
		Depth to saturated zone	0.75	Depth to thin cemented pan	0.79	Depth to saturated zone	0.75
		Shrink-swell	0.50	Slope	0.37	Slope	0.37

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
38C:							
Wet Spots		Not Rated		Not Rated		Not Rated	
39:							
Fluvaquents	95	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Flooding	1.00
		Flooding	1.00	Flooding	0.80	Depth to saturated zone	1.00
				Cutbanks cave	0.10		
Very Poorly Drained Soils		Not Rated		Not Rated		Not Rated	
40B2:							
Frederick	50	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Christian	30	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
40C2:							
Frederick	45	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.37
		Shrink-swell	1.00	Slope	0.37		
		Frost action	0.50	Cutbanks cave	0.10		
Christian	35	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Shrink-swell	0.50	Slope	0.37		
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
40D2:							
Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Christian	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Timberville		Not Rated		Not Rated		Not Rated	
40E2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
40E2:							
Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Christian	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
41B3:							
Frederick	50	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Christian	35	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
41C3:							
Frederick	45	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.37
		Shrink-swell	1.00	Slope	0.37		
		Frost action	0.50	Cutbanks cave	0.10		
Christian	35	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Shrink-swell	0.50	Slope	0.37		
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
41D3:							
Frederick	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Christian	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
42B2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
42B2:							
Frederick	50	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Gravel content	0.54
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
		Frost action	0.50				
Christian	35	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Gravel content	0.90
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
42C2:							
Frederick	45	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Gravel content	0.54
		Shrink-swell	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10	Content of large stones	<0.01
Christian	35	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Gravel content	0.65
		Shrink-swell	0.50	Slope	0.37	Slope	0.37
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
42D2:							
Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Gravel content	0.54
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
Christian	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50	Gravel content	0.65
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
42E2:							
Frederick	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Gravel content	0.54
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
Christian	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50	Gravel content	0.65
		Shrink-swell	0.50	Cutbanks cave	0.10		

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
43C:							
Frederick	45	Very limited		Somewhat limited		Very limited	
		Low strength	1.00	Too clayey	0.88	Gravel content	1.00
		Shrink-swell	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10	Content of large stones	<0.01
Christian	35	Very limited		Somewhat limited		Very limited	
		Low strength	1.00	Too clayey	0.50	Gravel content	1.00
		Shrink-swell	0.50	Slope	0.37	Slope	0.37
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
43D:							
Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Gravel content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
Christian	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50	Gravel content	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
43E:							
Frederick	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88	Gravel content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	<0.01
Christian	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50	Gravel content	1.00
		Shrink-swell	0.50	Cutbanks cave	0.10		
44B2:							
Frederick	50	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Christian	35	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
44C2:							
Frederick	45	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.37
		Shrink-swell	1.00	Slope	0.37		
		Frost action	0.50	Cutbanks cave	0.10		
Christian	40	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.50	Slope	0.37
		Shrink-swell	0.50	Slope	0.37		
		Slope	0.37	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
44D2:							
Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Christian	35	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
44E2:							
Frederick	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Christian	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.50		
		Shrink-swell	0.50	Cutbanks cave	0.10		
45C2:							
Frederick	50	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
Rock Outcrop	30	Not Rated		Not Rated		Not Rated	
45E2:							
Frederick	45	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
45E2:							
Rock Outcrop	35	Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
46B:							
Frederick	50	Very limited		Somewhat limited		Very limited	
		Low strength	1.00	Too clayey	0.88	Gravel content	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Content of large stones	0.03
		Frost action	0.50				
Nixa	40	Somewhat limited		Very limited		Very limited	
		Depth to thin cemented pan	1.00	Depth to thin cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.19	Cutbanks cave	1.00	Droughty	1.00
				Depth to saturated zone	1.00	Gravel content	1.00
Wet Spots		Not Rated		Not Rated		Not Rated	
46C:							
Frederick	45	Very limited		Somewhat limited		Very limited	
		Low strength	1.00	Too clayey	0.88	Gravel content	1.00
		Shrink-swell	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10	Content of large stones	0.03
Nixa	45	Somewhat limited		Very limited		Very limited	
		Depth to thin cemented pan	1.00	Depth to thin cemented pan	1.00	Depth to cemented pan	1.00
		Slope	0.37	Cutbanks cave	1.00	Droughty	1.00
		Depth to saturated zone	0.19	Depth to saturated zone	1.00	Gravel content	1.00
Wet Spots		Not Rated		Not Rated		Not Rated	
47C:							
Guemsey	85	Very limited		Very limited		Somewhat limited	
		Frost action	1.00	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Low strength	1.00	Too clayey	0.28		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Poorly Drained Soils		Not Rated		Not Rated		Not Rated	
48E:							
Hartleton	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Depth to soft bedrock	0.84	Droughty	1.00
				Depth to hard bedrock	0.42	Depth to bedrock	0.84
49F:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
49F:							
Hartleton	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Content of large stones	0.31	Content of large stones	0.32
		Content of large stones	0.31	Depth to hard bedrock	0.13	Gravel content	0.26
50D:							
Hazleton	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.05
50E:							
Hazleton	75	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.05
51D:							
Hazleton	70	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.05
51F:							
Hazleton	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.05
52F:							
Hazleton	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.05
Lehew	35	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Depth to hard bedrock	0.06	Slope	1.00	Content of large stones	1.00
				Cutbanks cave	0.10	Droughty	0.46
53C:							
Jefferson	80	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.37	Slope	0.37	Content of large stones	0.68
				Cutbanks cave	0.10	Slope	0.37
53D:							
Jefferson	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10	Content of large stones	0.68
54C:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
54C:							
Leetonia	90	Somewhat limited Slope	0.37	Very limited Cutbanks cave Depth to hard bedrock Slope	1.00 0.84 0.37	Very limited Droughty Slope Gravel content	1.00 0.37 0.22
54E:							
Leetonia	90	Very limited Slope	1.00	Very limited Slope Cutbanks cave Depth to hard bedrock	1.00 1.00 0.84	Very limited Slope Droughty Gravel content	1.00 1.00 0.22
55D:							
Lehew	85	Very limited Slope Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 0.74 0.29
56D:							
Lehew	90	Very limited Slope Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty Depth to bedrock	1.00 0.74 0.29
57E:							
Lehew	85	Very limited Slope Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty Content of large stones	1.00 0.74 0.68
57F:							
Lehew	85	Very limited Slope Depth to hard bedrock	1.00 0.29	Very limited Depth to hard bedrock Slope Cutbanks cave	1.00 1.00 0.10	Very limited Slope Droughty Content of large stones	1.00 0.74 0.68
58D:							
Lew	80	Very limited Slope Low strength Shrink-swell	1.00 1.00 0.50	Very limited Slope Cutbanks cave	1.00 0.10	Very limited Slope Content of large stones Gravel content	1.00 0.32 0.26
59E:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
59E:							
Lew	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Content of large stones	0.32
		Shrink-swell	0.50			Gravel content	0.26
59F:							
Lew	60	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Content of large stones	0.32
		Shrink-swell	0.50			Gravel content	0.26
60:							
Massanetta	90	Very limited		Somewhat limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	0.99	Flooding	0.60
		Low strength	1.00	Flooding	0.60		
		Frost action	0.50	Cutbanks cave	0.10		
Wet Soils		Not Rated		Not Rated		Not Rated	
61B:							
Millrock	75	Very limited		Very limited		Very limited	
		Flooding	1.00	Cutbanks cave	1.00	Flooding	1.00
				Flooding	0.80	Droughty	0.92
Frequented Flooded Soils		Not Rated		Not Rated		Not Rated	
62B:							
Monongahela	75	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to cemented pan	0.64
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Cutbanks cave	0.10		
Purdy		Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
62C:							
Monongahela	80	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to cemented pan	0.64
		Frost action	0.50	Depth to saturated zone	1.00	Slope	0.37
		Slope	0.37	Slope	0.37	Depth to saturated zone	0.19
Purdy		Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
62C:							
Wet Spots		Not Rated		Not Rated		Not Rated	
63B:							
Monongahela	75	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to cemented pan	0.64
		Frost action	0.50	Depth to saturated zone	1.00	Content of large stones	0.32
		Depth to saturated zone	0.19	Cutbanks cave	0.10	Depth to saturated zone	0.19
Purdy		Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
63C:							
Monongahela	70	Somewhat limited		Very limited		Somewhat limited	
		Depth to thick cemented pan	0.65	Depth to thick cemented pan	1.00	Depth to cemented pan	0.64
		Frost action	0.50	Depth to saturated zone	1.00	Slope	0.37
		Slope	0.37	Slope	0.37	Content of large stones	0.32
Purdy		Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
64C:							
Nixa	85	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Depth to saturated zone	0.19	Cutbanks cave	1.00	Droughty	1.00
		Slope	0.04	Depth to saturated zone	1.00	Gravel content	1.00
Wet Spots		Not Rated		Not Rated		Not Rated	
64D:							
Nixa	85	Very limited		Very limited		Very limited	
		Depth to thick cemented pan	1.00	Depth to thick cemented pan	1.00	Depth to cemented pan	1.00
		Slope	1.00	Slope	1.00	Slope	1.00
		Depth to saturated zone	0.19	Cutbanks cave	1.00	Droughty	1.00
Wet Spots		Not Rated		Not Rated		Not Rated	
65E:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
65E:							
Opequon	45	Very limited		Very limited		Very limited	
		Depth to hard bedrock	1.00	Depth to hard bedrock	1.00	Depth to bedrock	1.00
		Low strength	1.00	Slope	1.00	Slope	1.00
		Shrink-swell	1.00	Cutbanks cave	0.10	Droughty	0.99
Rock Outcrop	45	Not Rated		Not Rated		Not Rated	
66:							
Philo	95	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Cutbanks cave	1.00	Flooding	0.60
		Frost action	0.50	Depth to saturated zone	1.00	Depth to saturated zone	0.03
		Depth to saturated zone	0.03	Flooding	0.60		
Wet Spots		Not Rated		Not Rated		Not Rated	
66X:							
Pits And Dumps	100	Not Rated		Not Rated		Not Rated	
67:							
Purdy	80	Very limited		Very limited		Very limited	
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00
		Frost action	1.00	Cutbanks cave	0.10		
		Low strength	1.00	Too clayey	0.03		
Ponded Soils		Not Rated		Not Rated		Not Rated	
Very Poorly Drained Soils		Not Rated		Not Rated		Not Rated	
68E:							
Rock Outcrop	50	Not Rated		Not Rated		Not Rated	
Chilhowie	40	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to hard bedrock	1.00	Slope	1.00
		Low strength	1.00	Slope	1.00	Depth to bedrock	0.97
		Shrink-swell	1.00	Too clayey	0.13	Droughty	0.69
69F:							
Rock Outcrop	60	Not Rated		Not Rated		Not Rated	
Drall	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Content of large stones	0.92
				Depth to hard bedrock	0.01	Droughty	0.48
70C:							
Rock Outcrop	55	Not Rated		Not Rated		Not Rated	

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
70C:							
Frederick	40	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Too clayey	0.88	Slope	0.04
		Shrink-swell	1.00	Cutbanks cave	0.10		
		Frost action	0.50	Slope	0.04		
Wet Spots		Not Rated		Not Rated		Not Rated	
70E:							
Rock Outcrop	55	Not Rated		Not Rated		Not Rated	
Frederick	30	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Too clayey	0.88		
		Shrink-swell	1.00	Cutbanks cave	0.10		
Wet Spots		Not Rated		Not Rated		Not Rated	
71:							
Rubble Land	100	Very limited		Not Rated		Not Rated	
		Content of large stones	1.00				
		Slope	1.00				
72F:							
Rushtown	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	0.10	Gravel content	0.68
73B2:							
Sequoia	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.29	Depth to bedrock	0.29
		Shrink-swell	0.50	Too clayey	0.28		
				Cutbanks cave	0.10		
Wet Soils		Not Rated		Not Rated		Not Rated	
73C2:							
Sequoia	80	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Depth to soft bedrock	0.29	Depth to bedrock	0.29
		Slope	0.37	Too clayey	0.28		
Wet Soils		Not Rated		Not Rated		Not Rated	
74B2:							
Sequoia	55	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Depth to soft bedrock	0.29	Depth to bedrock	0.29
		Shrink-swell	0.50	Too clayey	0.28		
				Cutbanks cave	0.10		

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
74B2:							
Berks	40	Not limited		Somewhat limited		Somewhat limited	
				Depth to soft bedrock	0.46	Droughty	0.91
				Cutbanks cave	0.10	Depth to bedrock	0.46
						Gravel content	0.39
Wet Soils		Not Rated		Not Rated		Not Rated	
74C2:							
Sequoia	55	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Depth to soft bedrock	0.29	Depth to bedrock	0.29
		Slope	0.37	Too clayey	0.28		
Berks	40	Somewhat limited		Somewhat limited		Somewhat limited	
		Slope	0.37	Depth to soft bedrock	0.46	Droughty	0.91
				Slope	0.37	Depth to bedrock	0.46
				Cutbanks cave	0.10	Gravel content	0.39
74D2:							
Sequoia	50	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Depth to soft bedrock	0.29	Depth to bedrock	0.29
		Shrink-swell	0.50	Too clayey	0.28		
Berks	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to soft bedrock	0.46	Droughty	0.91
				Cutbanks cave	0.10	Depth to bedrock	0.46
Wet Spots		Not Rated		Not Rated		Not Rated	
75B2:							
Shenval	75	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				
		Frost action	0.50				
75C2:							
Shenval	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Shrink-swell	0.50	Cutbanks cave	0.10		
		Frost action	0.50				
75D2:							
Shenval	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10		
		Shrink-swell	0.50				

76C:

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
76C:							
Shenval	75	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Content of large stones	0.68
		Shrink-swell	0.50	Cutbanks cave	0.10	Slope	0.37
		Frost action	0.50				
76D:							
Shenval	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	0.10	Content of large stones	0.84
		Shrink-swell	0.50				
77C:							
Sherando	80	Somewhat limited		Very limited		Somewhat limited	
		Slope	0.04	Cutbanks cave	1.00	Droughty	0.56
				Slope	0.04	Slope	0.04
						Content of large stones	<0.01
77D:							
Sherando	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Cutbanks cave	1.00	Droughty	0.56
						Content of large stones	<0.01
78C:							
Sherando	85	Somewhat limited		Very limited		Very limited	
		Slope	0.04	Cutbanks cave	1.00	Content of large stones	1.00
		Content of large stones	0.01	Slope	0.04	Droughty	0.54
				Content of large stones	0.01	Slope	0.04
78E:							
Sherando	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Content of large stones	0.01	Cutbanks cave	1.00	Content of large stones	1.00
				Content of large stones	0.01	Droughty	0.54
79B:							
Timberville	85	Somewhat limited		Very limited		Not limited	
		Low strength	0.78	Cutbanks cave	1.00		
		Frost action	0.50	Too clayey	0.28		
Frequently Flooded Soils		Not Rated		Not Rated		Not Rated	
80B:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
80B:							
Timberville	85	Somewhat limited		Very limited		Somewhat limited	
		Low strength	0.78	Cutbanks cave	1.00	Gravel content	0.60
		Frost action	0.50	Too clayey	0.28		
Frequently Flooded Soils		Not Rated		Not Rated		Not Rated	
81:							
Tioga	75	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Cutbanks cave	1.00	Flooding	0.60
		Frost action	0.50	Flooding	0.60		
				Depth to saturated zone	0.35		
82:							
Udifulvents	85	Very limited		Very limited		Somewhat limited	
		Flooding	1.00	Depth to saturated zone	1.00	Flooding	0.60
		Low strength	1.00	Flooding	0.60	Depth to saturated zone	0.19
		Depth to saturated zone	0.19	Cutbanks cave	0.10		
Fluvaquents		Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
83:							
Udorthents	80	Not Rated		Not Rated		Not Rated	
Frequently Flooded Soils		Not Rated		Not Rated		Not Rated	
84:							
Udorthents	95	Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
85:							
Udorthents	95	Not Rated		Not Rated		Not Rated	
Wet Spots		Not Rated		Not Rated		Not Rated	
86B:							
Unison	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Cutbanks cave	1.00	Content of large stones	<0.01
		Shrink-swell	0.50	Too clayey	0.50		
		Frost action	0.50				
86C2:							
Unison	80	Very limited		Very limited		Somewhat limited	
		Low strength	1.00	Cutbanks cave	1.00	Slope	0.37
		Shrink-swell	0.50	Too clayey	0.50	Content of large stones	<0.01
		Frost action	0.50	Slope	0.37		

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
86D2:							
Unison	80	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	1.00	Content of large stones	<0.01
		Shrink-swell	0.50	Too clayey	0.50		
87B:							
Unison	80	Very limited		Very limited		Very limited	
		Low strength	1.00	Cutbanks cave	1.00	Content of large stones	1.00
		Shrink-swell	0.50	Too clayey	0.50		
		Frost action	0.50				
87C:							
Unison	80	Very limited		Very limited		Very limited	
		Low strength	1.00	Cutbanks cave	1.00	Content of large stones	1.00
		Shrink-swell	0.50	Too clayey	0.50		
		Frost action	0.50	Slope	0.37	Slope	0.37
87E:							
Unison	85	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
		Low strength	1.00	Cutbanks cave	1.00	Content of large stones	1.00
		Shrink-swell	0.50	Too clayey	0.50		
88:							
Urban Land	100	Not Rated		Not Rated		Not Rated	
89D3:							
Weikert	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Wet Areas		Not Rated		Not Rated		Not Rated	
89E3:							
Weikert	85	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
89F3:							
Weikert	90	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Wet Soils		Not Rated		Not Rated		Not Rated	
90D2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
90D2:							
Weikert	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Berks	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to soft bedrock	0.46	Droughty	0.91
				Cutbanks cave	0.10	Gravel content	0.56
Wet Areas		Not Rated		Not Rated		Not Rated	
90E3:							
Weikert	50	Very limited		Very limited		Very limited	
		Slope	1.00	Depth to soft bedrock	1.00	Depth to bedrock	1.00
		Depth to soft bedrock	1.00	Slope	1.00	Slope	1.00
		Frost action	0.50	Cutbanks cave	0.10	Droughty	1.00
Berks	40	Very limited		Very limited		Very limited	
		Slope	1.00	Slope	1.00	Slope	1.00
				Depth to soft bedrock	0.46	Droughty	0.91
				Cutbanks cave	0.10	Gravel content	0.56
Wet Areas		Not Rated		Not Rated		Not Rated	
91B:							
Wheeling	85	Very limited		Somewhat limited		Not limited	
		Low strength	1.00	Cutbanks cave	0.10		
		Frost action	0.50				
		Flooding	0.40				
91C2:							
Wheeling	85	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10		
		Flooding	0.40				
Frequently Flooded Soils		Not Rated		Not Rated		Not Rated	
92B:							
Wheeling	87	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Cutbanks cave	0.10	Gravel content	0.05
		Frost action	0.50				
		Flooding	0.40				
Frequently Flooded Soils		Not Rated		Not Rated		Not Rated	
92C2:							

Table ENG-4. - Building Site Development - Continued

Augusta County, Virginia

Map Symbol and Soil Name	Pct of Map Unit	Local Roads and Streets		Shallow Excavations		Lawns and Landscaping	
		Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value	Rating Class and Limiting Features	Value
92C2:							
Wheeling	85	Very limited		Somewhat limited		Somewhat limited	
		Low strength	1.00	Slope	0.37	Slope	0.37
		Frost action	0.50	Cutbanks cave	0.10	Gravel content	0.05
		Flooding	0.40				
Frequently Flooded Soils		Not Rated		Not Rated		Not Rated	
DAM:							
Dam	100	Not Rated		Not Rated		Not Rated	
W:							
Water	100	Not Rated		Not Rated		Not Rated	