

# Emergency Disposal by Shallow Burial

Aggregation Method: Dominant Component  
 Tie-break Rule: Higher

Ontario County, New York  
 Survey Area Version and Date: 19 - 09/01/2021

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
1A	Fluvaquents-Udfluvents complex, 0 to 3 percent slopes, frequently flooded	Very limited	Fluvaquents, frequently flooded 45% Flood ing Depth to saturated zone Seepage Water gathering surface Udfluvents, frequently flooded 40% Flood ing Depth to saturated zone Seepage Water gathering surface Wayland 10% Flood ing Depth to saturated zone Naples Creek 5% Flood ing Depth to saturated zone Water gathering surface
2A	Geneseo silty clay loam, 0 to 3 percent slopes	Very limited	Geneseo 90% Flood ing Depth to saturated zone Naples Creek 10% Flood ing Depth to saturated zone Water gathering surface
3A	Hemlock silty clay loam, 0 to 3 percent slopes	Very limited	Hemlock 90% Flood ing Depth to saturated zone Water gathering surface Naples Creek 10% Flood ing Depth to saturated zone Water gathering surface
4A	Naples Creek silty clay loam, 0 to 3 percent slopes	Very open	Naples Creek 90% Flood ing Depth to saturated zone Water gathering surface Wayland 5% Flood ing Depth to saturated zone Hemlock 5% Flood ing Depth to saturated zone Water gathering surface
5A	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	Very limited	Wayland 60% Flood ing Depth to saturated zone Wayland, very poorly drained 30% Ponding Flood ing Depth to saturated zone Water gathering surface Wakeville 10% Flood ing Depth to saturated zone Water gathering surface

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12D	Rockrift channery silt loam, 15 to 25 percent very illip	Very illip	Rockrift 85% Slope Large stones Mongaup, very stony 10% Slope Depth to bedrock Wildin 5% Slope Depth to saturated zone Water gathering surface
13F	Rock outcrop-Arnot complex, 25 to 70 percent	Not rated	Rock outcrop 55%
14D	Cadosia channery silt loam, 15 to 25 percent very illip	Very illip	Cadosia 85% Slope Large stones Lordstown, very stony 10% Slope Depth to bedrock Mardin 5% Slope Depth to saturated zone Water gathering surface
15A	Guyanoga channery silt loam fan, 0 to 3 percent limited slopes	Very limited	Guyanoga, fan 90% Seepage Flooding Depth to saturated zone Water gathering surface Large stones Chenango, fan 5% Seepage Flooding Depth to saturated zone Hemlock 5% Flooding Depth to saturated zone Water gathering surface
15B	Guyanoga channery silt loam fan, 3 to 8 percent limited slopes	Very limited	Guyanoga, fan 90% Seepage Flooding Depth to saturated zone Water gathering surface Large stones Chenango, fan 5% Seepage Flooding Depth to saturated zone Hemlock 5% Flooding Depth to saturated zone Water gathering surface

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16A	Almond channery silt loam 0 to 3 percent slopes	Very limited	Almond 80% Depth to saturated zone Water gathering surface Norchip 8% Depth to saturated zone Water gathering surface Ontusia 7% Depth to saturated zone Water gathering surface Gretor 5% Depth to saturated zone Depth to bedrock
16B	Almond channery silt loam 3 to 8 percent slopes	Very limited	Almond 80% Depth to saturated zone Water gathering surface Gretor 5% Depth to saturated zone Depth to bedrock Slope Ontusia 5% Depth to saturated zone Water gathering surface Norchip 5% Depth to saturated zone Water gathering surface Salamanca 5% Depth to saturated zone Slope
16C	Almond channery silt loam 8 to 15 percent slopes	Very limited	Almond 80% Depth to saturated zone Slope Water gathering surface Gretor 5% Slope Depth to saturated zone Depth to bedrock Norchip 5% Depth to saturated zone Water gathering surface Ontusia 5% Depth to saturated zone Slope Water gathering surface Salamanca 5% Slope Depth to saturated zone Water gathering surface
18A	Home fine sandy loam 0 to 3 percent slopes	Very limited	Home 90% Depth to saturated zone Seepage Water gathering surface Phelps 5% Depth to saturated zone Seepage Water gathering surface Fine-loamy, mixed, active, mesic Typic Argic 5% Depth to saturated zone Water gathering surface

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19A	Fine-loamy, mixed, active, mesic, Typic Argicudisols, 0 to 3 percent slopes	Very limited	Fine-loamy, mixed, active, mesic Typic Argicudisols 80% Ponding Depth to saturated zone Water gathering surface Homer 8% Depth to saturated zone Seepage Water gathering surface Atherton 7% Depth to saturated zone Water gathering surface Seepage Palms, undrained 5% Ponding Depth to saturated zone Organic matter content Seepage
20A	Atherton and Fine-loamy, mixed, active, mesic, Typic Argicudisols, 0 to 3 percent slopes	Very limited	Atherton 41% Depth to saturated zone Water gathering surface Seepage Fine-loamy, mixed, active, mesic Typic Argicudisols 39% Ponding Depth to saturated zone Water gathering surface Homer 8% Depth to saturated zone Seepage Water gathering surface Canandaigua 7% Depth to saturated zone Water gathering surface Castile 5% Depth to saturated zone Seepage Water gathering surface
24A	Howard gravelly loam 0 to 3 percent slopes	Very limited	Howard 80% Seepage Palmyra 10% Seepage Phelps 5% Depth to saturated zone Seepage Water gathering surface Arkport 5% Seepage
24B	Howard gravelly loam 3 to 8 percent slopes	Very limited	Howard 80% Seepage Palmyra 10% Seepage Arkport 5% Seepage Phelps 5% Depth to saturated zone Seepage Water gathering surface

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24C	Howard gravelly loam 8 to 15 percent slopes	Very limited	Howard 80% Seepage Slope Palmyra 10% Seepage Slope Phelps 5% Depth to saturated zone Seepage Water gathering surface Arkport 5% Seepage Slope
24D	Howard soils, 15 to 25 percent slopes	Very limited	Howard 65% Slope Seepage Palmyra 20% Slope Seepage Arkport 13% Slope Seepage Phelps 2% Depth to saturated zone Seepage Water gathering surface
25A	Chenango gravelly loam 0 to 3 percent slopes	Very limited	Chenango 90% Seepage Castile 8% Depth to saturated zone Seepage Water gathering surface Valois 2% Seepage
25B	Chenango gravelly loam 3 to 8 percent slopes	Very limited	Chenango 90% Seepage Valois 5% Seepage Castile 5% Depth to saturated zone Seepage Water gathering surface
25C	Chenango gravelly loam 8 to 15 percent slopes	Very limited	Chenango 90% Seepage Slope Valois 5% Seepage Slope Castile 5% Depth to saturated zone Seepage Slope Water gathering surface

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25D	Chenango gravelly loam	15 to 25 percent slopes Very limited	Chenango 90% Slope Seepage Castile 8% Depth to saturated zone Seepage Slope Water gathering surface Valois 2% Slope Seepage
25E	Chenango gravelly loam	25 to 35 percent slopes Very limited	Chenango 90% Slope Seepage Valois 10% Slope Seepage
26B	Chenango channery loam fan,	3 to 8 percent slopes Very limited	Chenango, fan 85% Seepage Flooding Depth to saturated zone Castile 5% Depth to saturated zone Seepage Water gathering surface Guyanoga, fan 5% Seepage Flooding Depth to saturated zone Water gathering surface Large stones Hemlock 5% Flooding Depth to saturated zone Water gathering surface
27B	Castile gravelly silt loam	3 to 8 percent slopes Very limited	Castile 85% Depth to saturated zone Seepage Water gathering surface Homer 5% Depth to saturated zone Seepage Water gathering surface Chenango 5% Seepage Phelps 5% Depth to saturated zone Seepage Water gathering surface
31A	Collamer silt loam	0 to 3 percent slopes Very limited	Collamer 85% Depth to saturated zone Water gathering surface Niagara 10% Depth to saturated zone Water gathering surface Schoharie 5% Depth to saturated zone Water gathering surface

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31B	Collamer silt loam 3 to 8 percent slopes	Very limited	Collamer 85% Depth to saturated zone Water gath ering surface Niagara 10% Depth to saturated zone Water gath ering surface Schoharie 5% Depth to saturated zone Water gath ering surface
31C	Collamer silt loam 8 to 15 percent slopes	Very limited	Collamer 85% Depth to saturated zone Slope Water gath ering surface Niagara 10% Depth to saturated zone Water gath ering surface Slope Schoharie 5% Depth to saturated zone Slope Water gath ering surface
31D	Collamer silt loam 15 to 25 percent slopes	Very limited	Collamer 90% Slope Depth to saturated zone Water gath ering surface Niagara 5% Depth to saturated zone Slope Water gath ering surface Schoharie 5% Slope Depth to saturated zone Water gath ering surface
32A	Dunkirk fine sandy loam 0 to 3 percent slopes	Not limited	Dunkirk 90%
32B	Dunkirk fine sandy loam 3 to 8 percent slopes	Not limited	Dunkirk 90%
33A	Dunkirk silt loam 0 to 3 percent slopes	Not limited	Dunkirk 90%
33B	Dunkirk silt loam 3 to 8 percent slopes	Slightly limited	Dunkirk 90% Slope
33C	Dunkirk silt loam 8 to 15 percent slopes	Moderately limited	Dunkirk 90% Slope
33D	Dunkirk silt loam 15 to 25 percent slopes	Very limited	Dunkirk 90% Slope Arkport 5% Slope Seepage Schoharie 5% Slope Depth to saturated zone Water gath ering surface
33E	Dunkirk silt loam 25 to 35 percent slopes	Very limited	Dunkirk 90% Slope Schoharie 5% Slope Depth to saturated zone Water gath ering surface Arkport 5% Slope Seepage

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34A	Lakemont silty clay loam 0 to 3 percent slopes	Very limited	Lakemont 85% Depth to saturated zone Water gath ering surface Odessa 5% Depth to saturated zone Water gath ering surface Fonda 4% Ponding Depth to saturated zone Water gath ering surface Canandai gua 4% Depth to saturated zone Water gath ering surface Barre 2% Depth to saturated zone Water gath ering surface
35A	Odessa silt loam 0 to 3 percent slopes	Very limited	Odessa 85% Depth to saturated zone Water gath ering surface Lakemont 5% Depth to saturated zone Water gath ering surface Schoharie 5% Depth to saturated zone Chur chvill e 3% Depth to saturated zone Water gath ering surface Seepage, porous bedrock Rhi nebeck 2% Depth to saturated zone Water gath ering surface
35B	Odessa silty clay loam 3 to 8 percent slopes	Very limited	Odessa 85% Depth to saturated zone Water gath ering surface Schoharie 6% Depth to saturated zone Lakemont 4% Depth to saturated zone Water gath ering surface Chur chvill e 3% Depth to saturated zone Water gath ering surface Seepage, porous bedrock Rhi nebeck 2% Depth to saturated zone Water gath ering surface
36A	Schoharie silty clay loam 0 to 3 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Odessa 5% Depth to saturated zone Water gath ering surface Cazenovia 5% Depth to saturated zone Water gath ering surface Cayuga 3% Depth to saturated zone Water gath ering surface Coll amer 2% Depth to saturated zone Water gath ering surface



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36B	Schoharie silty clay loam 3 to 8 percent slopes	limited	Schoharie 85% Depth to saturated zone Odessa 5% Depth to saturated zone Water gath ering surface Cazenovia 5% Depth to saturated zone Water gath ering surface Cayuga 3% Depth to saturated zone Water gath ering surface Collamer 2% Depth to saturated zone Water gath ering surface
36C	Schoharie silty clay loam 8 to 15 percent slopes	limited	Schoharie 85% Depth to saturated zone Slope Cazenovia 5% Depth to saturated zone Slope Water gath ering surface Odessa 5% Depth to saturated zone Slope Water gath ering surface Cayuga 3% Depth to saturated zone Slope Water gath ering surface Collamer 2% Depth to saturated zone Slope Water gath ering surface
36D	Schoharie silty clay loam 15 to 25 percent slopes	limited	Schoharie 85% Slope Depth to saturated zone Odessa 5% Slope Depth to saturated zone Water gath ering surface Cazenovia 5% Slope Depth to saturated zone Water gath ering surface Cayuga 3% Slope Depth to saturated zone Water gath ering surface Collamer 2% Slope Depth to saturated zone Water gath ering surface

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36E	Schoharie silty clay loam 25 to 45 percent slopes	Very limited	Schoharie 85% Slope Depth to saturated zone Odessa 5% Slope Depth to saturated zone Water gathering surface Cazenovia 5% Slope Depth to saturated zone Water gathering surface Cayuga 3% Slope Depth to saturated zone Water gathering surface Collamer 2% Slope Depth to saturated zone Water gathering surface
37A	Schoharie silt loam 0 to 3 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Odessa 5% Depth to saturated zone Water gathering surface Cazenovia 5% Depth to saturated zone Water gathering surface Cayuga 3% Depth to saturated zone Water gathering surface Collamer 2% Depth to saturated zone Water gathering surface
37B	Schoharie silt loam 3 to 8 percent slopes	Very limited	Schoharie 85% Depth to saturated zone Odessa 5% Depth to saturated zone Water gathering surface Cazenovia 5% Depth to saturated zone Water gathering surface Cayuga 3% Depth to saturated zone Water gathering surface Collamer 2% Depth to saturated zone Water gathering surface
38A	Niagara silt loam 0 to 3 percent slopes	Very limited	Niagara 85% Depth to saturated zone Water gathering surface Canandigua 5% Depth to saturated zone Water gathering surface Collamer 5% Depth to saturated zone Water gathering surface Rhonebeck 5% Depth to saturated zone Water gathering surface

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38B	Niagara silt loam 3 to 8 percent slopes	Very limited	Niagara 85% Depth to saturated zone Water gathering surface Canandai gua 5% Depth to saturated zone Water gathering surface Rhinebeck 5% Depth to saturated zone Water gathering surface Collamer 5% Depth to saturated zone Water gathering surface
39A	Rhinebeck silty clay loam 0 to 3 percent slopes	Very limited	Rhinebeck 90% Depth to saturated zone Water gathering surface Lakemont 5% Depth to saturated zone Water gathering surface Niagara 5% Depth to saturated zone Water gathering surface
41A	Aeric Epiaquepts, 0 to 3 percent slopes	Very limited	Aeric Epiaquepts 50% Depth to saturated zone Seepage Water gathering surface Aeric Epiaquepts 45% Depth to saturated zone Seepage Water gathering surface El nora 5% Depth to saturated zone Seepage Water gathering surface
43A	Canandai gua silt loam 0 to 3 percent slopes	Very limited	Canandai gua 90% Depth to saturated zone Water gathering surface Canandai gua 4% Ponding Depth to saturated zone Water gathering surface Lakemont 3% Depth to saturated zone Water gathering surface Niagara 3% Depth to saturated zone Water gathering surface
44A	Canandai gua mucky silt loam 0 to 3 percent slopes	Very limited	Canandai gua 90% Ponding Depth to saturated zone Water gathering surface Canandai gua 5% Depth to saturated zone Water gathering surface Lakemont 3% Depth to saturated zone Water gathering surface Palms, undrained 2% Ponding Depth to saturated zone Organic matter content Seepage

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45A	Fonda mucky silt loam 0 to 3 percent slope	Very limited	Fonda 95% Ponding Depth to saturated zone Water gathering surface Canandaigua 3% Ponding Depth to saturated zone Water gathering surface Palms, undrained 2% Ponding Depth to saturated zone Organic matter content Seepage
46A	Galen fine sandy loam 0 to 3 percent slope	Very limited	Galen 90% Depth to saturated zone Seepage Water gathering surface Aeric Epiaquepts 5% Depth to saturated zone Seepage Water gathering surface Kendai 5% Depth to saturated zone Water gathering surface Seepage, porous bedrock
46B	Galen fine sandy loam 3 to 8 percent slope	Very limited	Galen 90% Depth to saturated zone Seepage Water gathering surface Aeric Epiaquepts 5% Depth to saturated zone Seepage Water gathering surface Kendai 5% Depth to saturated zone Water gathering surface Seepage, porous bedrock
48A	Arkport fine sandy loam 0 to 3 percent slope	Very limited	Arkport 95% Seepage Galen 2% Depth to saturated zone Seepage Water gathering surface
48B	Arkport fine sandy loam 3 to 8 percent slope	Very limited	Arkport 95% Seepage Galen 2% Depth to saturated zone Seepage Water gathering surface
48C	Arkport fine sandy loam 8 to 15 percent slope	Very limited	Arkport 95% Seepage Slope Galen 2% Depth to saturated zone Seepage Water gathering surface Slope

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48D	Arkport fine sandy loam, 15 to 25 percent slopes	Very limited	Arkport 90% Slope Seepage Dunkirk 8% Slope Palmyra 2% Slope Seepage
49B	Arkport loamy fine sand, 3 to 8 percent slopes	Very limited	Arkport 95% Seepage Galien 2% Depth to saturated zone Seepage Water gathering surface
49D	Arkport loamy fine sand, 15 to 25 percent slopes	Very limited	Arkport 95% Slope Seepage Dunkirk 3% Slope Palmyra 2% Slope Seepage
49E	Arkport loamy fine sand, 25 to 35 percent slopes	Very limited	Arkport 90% Slope Seepage Dunkirk 8% Slope Palmyra 2% Slope Seepage
49F	Arkport loamy fine sand, 35 to 55 percent slopes	Very limited	Arkport 90% Slope Seepage Dunkirk 8% Slope Palmyra 2% Slope Seepage
50B	Dunkirk-Arkport complex, 3 to 8 percent slopes	Not limited	Dunkirk 50%
50C	Dunkirk-Arkport complex, 8 to 15 percent slopes	Slightly limited	Dunkirk 60% Slope
50D	Dunkirk-Arkport complex, 15 to 25 percent slopes	Very limited	Dunkirk 60% Slope Arkport 35% Slope Seepage Colamer 5% Slope Depth to saturated zone Water gathering surface

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53A	Lamson fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Depth to saturated zone Water gathering surface Seepage Lamson 5% Ponding Depth to saturated zone Water gathering surface Seepage Canandaiqua 3% Depth to saturated zone Water gathering surface Gal en 2% Depth to saturated zone Seepage Water gathering surface
54A	Lamson mucky fine sandy loam, 0 to 3 percent slopes	Very limited	Lamson 90% Ponding Depth to saturated zone Water gathering surface Seepage Lamson 5% Depth to saturated zone Water gathering surface Seepage Canandaiqua 5% Depth to saturated zone Water gathering surface
56A	El nora loamy fine sand, 0 to 3 percent slopes	Very limited	El nora 90% Depth to saturated zone Seepage Water gathering surface Aeric Epiaquepts 10% Depth to saturated zone Seepage Water gathering surface
58B	Colonie loamy fine sand, 3 to 8 percent slopes	Very limited	Colonie 95% Seepage El nora 5% Depth to saturated zone Seepage Water gathering surface
58C	Colonie loamy fine sand, 8 to 15 percent slopes	Very limited	Colonie 95% Seepage Slope El nora 5% Depth to saturated zone Seepage Water gathering surface Slope
62B	Mardin channery silt loam, 3 to 8 percent slopes	Very limited	Mardin 85% Depth to saturated zone Volusia 5% Depth to saturated zone Water gathering surface Lorstown 5% Depth to bedrock

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62C	Mardin channery silt loam 8 to 15 percent	Very slightly limited	Mardin 88% Depth to saturated zone Slope Bath 5% Slope Depth to saturated zone Volusia 5% Depth to saturated zone Water gathering surface Lorstown 2% Slope Depth to bedrock
62D	Mardin channery silt loam 15 to 25 percent	Very slightly limited	Mardin 85% Slope Depth to saturated zone Water gathering surface Lorstown 5% Slope Depth to bedrock Volusia 5% Depth to saturated zone Slope Water gathering surface Bath 5% Slope Depth to saturated zone
62E	Mardin channery silt loam 25 to 35 percent	Very slightly limited	Mardin 80% Slope Depth to saturated zone Water gathering surface Bath 8% Slope Depth to saturated zone Lorstown, very stony 7% Slope Depth to bedrock Stoniness Large stones Volusia 5% Slope Depth to saturated zone Water gathering surface
63B	Langford channery silt loam 3 to 8 percent	Mostly limited	Langford 85% Depth to saturated zone
63C	Langford channery silt loam 8 to 15 percent	Mostly limited	Langford 85% Depth to saturated zone Slope Chadakoin 5% Slope

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63D	Langford channery silt loam 15 to 25 percent slopes	Very limited	Langford 80% Slope Depth to saturated zone Water gathering surface Erie 5% Depth to saturated zone Slope Water gathering surface Towerville 5% Slope Depth to saturated zone Depth to bedrock Schuyler 5% Slope Depth to saturated zone Water gathering surface Chadakoin 5% Slope
64B	Langford-Erie channery silt loams, 3 to 8 percent slopes	Probably limited	Langford 50% Depth to saturated zone
66A	Lyons soils, 0 to 3 percent slopes	Very limited	Lyons 75% Depth to saturated zone Water gathering surface Seepage, porous bedrock Lyons, frequently ponded 15% Ponding Depth to saturated zone Water gathering surface Seepage, porous bedrock Appl eton 3% Depth to saturated zone Water gathering surface Canandai gua 3% Depth to saturated zone Water gathering surface Kendai a 2% Depth to saturated zone Water gathering surface Seepage, porous bedrock Pal ms, undrai ned 1% Ponding Depth to saturated zone Water gathering surface Seepage Ili on 1% Depth to saturated zone Water gathering surface
68A	Volusia channery silt loam 0 to 3 percent slopes	Very limited	Volusia 90% Depth to saturated zone Water gathering surface Chippewa 5% Depth to saturated zone Water gathering surface Mar di n 5% Depth to saturated zone



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68B	Volusia channery silt loam 3 to 8 percent slopes	Very limited	Volusia 90% Depth to saturated zone Water gath ering surface Chippewa 5% Depth to saturated zone Water gath ering surface Mardin 5% Depth to saturated zone Slope
68C	Volusia channery silt loam 8 to 15 percent slopes	Very limited	Volusia 90% Depth to saturated zone Slope Water gath ering surface Mardin 6% Slope Depth to saturated zone Water gath ering surface Chippewa 4% Depth to saturated zone Water gath ering surface
68D	Volusia channery silt loam 15 to 25 percent slopes	Very limited	Volusia 90% Slope Depth to saturated zone Water gath ering surface Mardin 7% Slope Depth to saturated zone Water gath ering surface Chippewa 3% Depth to saturated zone Water gath ering surface
69A	Erie channery silt loam 0 to 3 percent slopes	Very limited	Erie 80% Depth to saturated zone Water gath ering surface Chippewa 10% Depth to saturated zone Water gath ering surface Fremont 5% Depth to saturated zone Water gath ering surface
69B	Erie channery silt loam 3 to 8 percent slopes	Very limited	Erie 80% Depth to saturated zone Water gath ering surface Chippewa 5% Depth to saturated zone Water gath ering surface Fremont 5% Depth to saturated zone Water gath ering surface

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69C	Erie channery silt loam	8 to 15 percent slopes Very limited	Erie 80% Depth to saturated zone Slope Water gathering surface Langford 10% Slope Depth to saturated zone Water gathering surface Fremont 5% Depth to saturated zone Slope Water gathering surface Chippewa 5% Depth to saturated zone Water gathering surface
71A	Darien silt loam	0 to 3 percent slopes Very limited	Darien 95% Depth to saturated zone Water gathering surface Illion 4% Depth to saturated zone Water gathering surface Angola 1% Depth to saturated zone Depth to bedrock Water gathering surface
71B	Darien silt loam	3 to 8 percent slopes Very limited	Darien 95% Depth to saturated zone Water gathering surface Illion 4% Depth to saturated zone Water gathering surface Angola 1% Depth to saturated zone Depth to bedrock Water gathering surface
71C	Darien silt loam	8 to 15 percent slopes Very limited	Darien 95% Depth to saturated zone Slope Water gathering surface Illion 4% Depth to saturated zone Water gathering surface Slope Angola 1% Depth to saturated zone Depth to bedrock Slope Water gathering surface
72A	Darien-Illion silt loams,	0 to 3 percent slopes Very limited	Darien 68% Depth to saturated zone Water gathering surface Illion 27% Depth to saturated zone Water gathering surface Angola 5% Depth to saturated zone Depth to bedrock Water gathering surface

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72B	Darien-Ilion silt loams, 3 to 8 percent slopes	Very limited	Darien 68% Depth to saturated zone Water gathering surface Ilion 27% Depth to saturated zone Water gathering surface Angola 5% Depth to saturated zone Depth to bedrock Water gathering surface
73B	Getor silt loam, 3 to 8 percent slopes	Very limited	Getor 95% Depth to saturated zone Depth to bedrock Water gathering surface Getor, poorly drained 5% Depth to saturated zone Depth to bedrock Water gathering surface
73C	Getor silt loam, 8 to 15 percent slopes	Very limited	Getor 95% Depth to saturated zone Depth to bedrock Slope Water gathering surface Getor, poorly drained 5% Depth to saturated zone Depth to bedrock Water gathering surface Slope
73D	Getor channery silt loam, 15 to 25 percent slopes	Very limited	Getor 90% Slope Depth to saturated zone Depth to bedrock Water gathering surface Mongaup, very stony 8% Slope Depth to bedrock Getor, poorly drained 2% Depth to saturated zone Depth to bedrock Water gathering surface Slope
76B	Orpark silt loam, 3 to 8 percent slopes	Very limited	Orpark 95% Depth to saturated zone Depth to bedrock Water gathering surface Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Water gathering surface
76C	Orpark silt loam, 8 to 15 percent slopes	Very limited	Orpark 95% Depth to saturated zone Depth to bedrock Slope Water gathering surface Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
76D	Orpark channery silt loam 15 to 25 percent slopes	Very limited	Orpark 90% Slope Depth to saturated zone Depth to bedrock Water gathering surface Orpark, poorly drained 5% Depth to saturated zone Depth to bedrock Water gathering surface Lordstown, very stony 5% Slope Depth to bedrock
77A	Chippewa silt loam 0 to 3 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Water gathering surface Chippewa, very poorly drained 10% Ponding Depth to saturated zone Water gathering surface Volusia 5% Depth to saturated zone Water gathering surface
77B	Chippewa silt loam 3 to 8 percent slopes	Very limited	Chippewa 85% Depth to saturated zone Water gathering surface Volusia 10% Depth to saturated zone Slope Water gathering surface Chippewa, very poorly drained 5% Ponding Depth to saturated zone Water gathering surface
82B	Manlius channery silt loam 3 to 8 percent slopes	Very limited	Manlius 95% Depth to bedrock Seepage Large stones Getor 5% Depth to saturated zone Depth to bedrock Water gathering surface
82C	Manlius channery silt loam 8 to 15 percent slopes	Very limited	Manlius 95% Depth to bedrock Seepage Slope Large stones Getor 5% Depth to saturated zone Depth to bedrock Slope Water gathering surface

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Aggregation Method: Dominant Component  
 Tie-break Rule: Higher

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
82D	Manlius channery silt loam, 15 to 25 percent slopes	Very dispersed	Manlius 95% Slope Depth to bedrock Seepage Large stones Arnot, very stony 4% Slope Depth to bedrock Large stones Grot 1% Slope Depth to saturated zone Depth to bedrock Water gathering surface
91A	Palms muck, 0 to 3 percent slopes	Very limited	Palms, undrained 55% Ponding Depth to saturated zone Organic matter content Seepage Palms, drained 40% Depth to saturated zone Organic matter content Seepage Canandaigua 5% Ponding Depth to saturated zone Water gathering surface
92A	Carlisle muck, 0 to 3 percent slopes	Very limited	Carlisle, undrained 45% Ponding Depth to saturated zone Organic matter content Water gathering surface Seepage Carlisle, drained 40% Depth to saturated zone Organic matter content Water gathering surface Seepage Palms, undrained 10% Ponding Depth to saturated zone Organic matter content Seepage Canandaigua 5% Ponding Depth to saturated zone Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
93A	Edwards muck, 0 to 3 percent slopes	Very limited	Edwards, undrained 50% Ponding Depth to saturated zone Water gathering surface Seepage Edwards, drained 35% Depth to saturated zone Water gathering surface Seepage Martisco, undrained 10% Ponding Depth to saturated zone Water gathering surface Canandaigua 5% Ponding Depth to saturated zone Water gathering surface
94A	Martisco muck, 0 to 3 percent slopes	Very limited	Martisco, undrained 55% Ponding Depth to saturated zone Water gathering surface Martisco, drained 35% Depth to saturated zone Water gathering surface Canandaigua 5% Ponding Depth to saturated zone Water gathering surface Palms, drained 5% Depth to saturated zone Organic matter content Seepage
95A	Sapriests, 0 to 3 percent slopes, inundated	Very limited	Sapriests, inundated 85% Ponding Depth to saturated zone Organic matter content Water gathering surface Seepage Palms, undrained 5% Ponding Depth to saturated zone Organic matter content Seepage Fluvaquents, frequently flooded 5% Flooding Depth to saturated zone Seepage Water gathering surface Carlisle, undrained 5% Ponding Depth to saturated zone Organic matter content Water gathering surface Seepage
101A	Honeoye loam 0 to 3 percent slopes	Slightly limited	Honeoye 85% Seepage, porous bedrock Lansing 4% Seepage, porous bedrock

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
101B	Honeoye loam 3 to 8 percent slopes	Slightly limited	Honeoye 85% Seepage, porous bedrock Lansing 4% Seepage, porous bedrock
101C	Honeoye loam 8 to 15 percent slopes	Moderately limited	Honeoye 85% Slope Seepage, porous bedrock Lima 5% Depth to saturated zone Slope Seepage, porous bedrock Lansing 4% Slope Seepage, porous bedrock
101D	Honeoye loam 15 to 25 percent slopes	Very limited	Honeoye 85% Slope Seepage, porous bedrock Lima 5% Slope Depth to saturated zone Seepage, porous bedrock Lansing 4% Slope Seepage, porous bedrock Kendai 4% Depth to saturated zone Slope Water gathering surface Seepage, porous bedrock Vassai 2% Slope Depth to bedrock
101E	Honeoye loam 25 to 35 percent slopes	Very limited	Honeoye 85% Slope Seepage, porous bedrock Lima 5% Slope Depth to saturated zone Seepage, porous bedrock Kendai 4% Depth to saturated zone Slope Water gathering surface Seepage, porous bedrock Lansing 4% Slope Seepage, porous bedrock Vassai 2% Slope Depth to bedrock
104A	Honeoye loam 0 to 3 percent slopes, lower surface	Slightly limited	Honeoye, lower clay surface 85% Seepage, porous bedrock Lansing 4% Seepage, porous bedrock
104B	Honeoye loam 3 to 8 percent slopes, lower surface	Slightly limited	Honeoye, lower clay surface 85% Seepage, porous bedrock Lansing 4% Seepage, porous bedrock

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
104C	Honeoye loam 8 to 15 percent slopes, lower clay surface	Moderately limited	Honeoye, lower clay surface 85% Slope Seepage, porous bedrock Lima 5% Depth to saturated zone Slope Seepage, porous bedrock Lansing 4% Slope Seepage, porous bedrock
106B	Danley-Lansing complex, 3 to 8 percent slopes	Very limited	Danley 50% Depth to saturated zone Conesus 2% Depth to saturated zone Seepage, porous bedrock Kendai a 1% Depth to saturated zone Water gathering surface Seepage, porous bedrock Appl et on 1% Depth to saturated zone Water gathering surface
107B	Conesus-Lansing complex, 3 to 8 percent slopes	Very limited	Conesus 50% Depth to saturated zone Seepage, porous bedrock Kendai a 2% Depth to saturated zone Water gathering surface Seepage, porous bedrock Appl et on 1% Depth to saturated zone Water gathering surface Danley 1% Depth to saturated zone
108C	Lansing loam 8 to 15 percent slopes	Somewhat limited	Lansing 85% Slope Seepage, porous bedrock
108D	Lansing loam 15 to 25 percent slopes	Very limited	Lansing 85% Slope Seepage, porous bedrock Conesus 9% Slope Depth to saturated zone Seepage, porous bedrock Vassai c 3% Slope Depth to bedrock Kendai a 2% Depth to saturated zone Slope Water gathering surface Seepage, porous bedrock Appl et on 1% Depth to saturated zone Slope Water gathering surface



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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
108E	Lansing loam 25 to 35 percent slopes	Very limited	Lansing 85% Slope Seepage, porous bedrock Cazenovia 10% Slope Depth to saturated zone Water gathering surface Aurora 5% Slope Depth to saturated zone Depth to bedrock Water gathering surface
112B	Ontario fine sandy loam 3 to 8 percent slopes	Slightly limited	Ontario 85% Seepage, porous bedrock Honeoye 5% Seepage, porous bedrock
112C	Ontario fine sandy loam 8 to 15 percent slopes	Modestly limited	Ontario 85% Slope Seepage, porous bedrock Honeoye 5% Slope Seepage, porous bedrock Hilton 5% Depth to saturated zone Slope Seepage, porous bedrock Water gathering surface
112D	Ontario fine sandy loam 15 to 25 percent slopes	Slightly limited	Ontario 85% Slope Seepage, porous bedrock Cazenovia 5% Slope Depth to saturated zone Water gathering surface Honeoye 5% Slope Seepage, porous bedrock Apleton 2% Depth to saturated zone Slope Water gathering surface Seepage, porous bedrock
112E	Ontario fine sandy loam 25 to 35 percent slopes	Slightly limited	Ontario 85% Slope Seepage, porous bedrock Cazenovia 5% Slope Depth to saturated zone Water gathering surface Honeoye 5% Slope Seepage, porous bedrock Apleton 2% Depth to saturated zone Slope Water gathering surface Seepage, porous bedrock
114B	Ontario gravelly loam 3 to 8 percent slopes	Slightly limited	Ontario 85% Seepage, porous bedrock Honeoye 5% Seepage, porous bedrock

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
114C	Ontario gravelly loam 8 to 15 percent slopes	Moderately limited	Ontario 85% Slope Seepage, porous bedrock Hilton 5% Depth to saturated zone Slope Seepage, porous bedrock Water gatering surface Honeoye 5% Slope Seepage, porous bedrock
114D	Ontario gravelly loam 15 to 25 percent slopes	Very limited	Ontario 85% Slope Seepage, porous bedrock Honeoye 5% Slope Seepage, porous bedrock Cazenovia 3% Depth to saturated zone Slope Water gatering surface Apleton 2% Depth to saturated zone Slope Water gatering surface Seepage, porous bedrock
116B	Ontario loam 3 to 8 percent slopes	Slightly limited	Ontario 85% Seepage, porous bedrock Honeoye 5% Seepage, porous bedrock
116C	Ontario loam 8 to 15 percent slopes	Moderately limited	Ontario 85% Slope Seepage, porous bedrock Honeoye 5% Slope Seepage, porous bedrock Hilton 5% Depth to saturated zone Slope Seepage, porous bedrock Water gatering surface
116D	Ontario loam 15 to 25 percent slopes	Very limited	Ontario 85% Slope Seepage, porous bedrock Cazenovia 5% Slope Depth to saturated zone Water gatering surface Honeoye 5% Slope Seepage, porous bedrock Apleton 2% Depth to saturated zone Slope Water gatering surface Seepage, porous bedrock

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
118F	Ontario, Honeoye, and Lansing soils, 35 to 65 percent slopes	Very limited	Ontario 40% Slope Seepage, porous bedrock Honeoye 35% Slope Seepage, porous bedrock Lansing 20% Slope Seepage, porous bedrock Aurora 5% Slope Depth to saturated zone Depth to bedrock Water gatering surface
120E	Palmyra and Howard soils, 25 to 45 percent slopes	Very limited	Palmyra 55% Slope Seepage Howard 40% Slope Seepage Colonie 5% Slope Seepage
122A	Palmyra cobbly loam 0 to 3 percent slopes	Very limited	Palmyra 95% Seepage
122B	Palmyra cobbly loam 3 to 8 percent slopes	Very limited	Palmyra 95% Seepage
124A	Palmyra fine sandy loam 0 to 3 percent slopes	Very limited	Palmyra 90% Seepage Howard 10% Seepage
124B	Palmyra fine sandy loam 3 to 8 percent slopes	Very limited	Palmyra 90% Seepage Howard 10% Seepage
126A	Palmyra gravelly loam 0 to 3 percent slopes	Very limited	Palmyra 95% Seepage Arkport 5% Seepage
126B	Palmyra gravelly loam 3 to 8 percent slopes	Very limited	Palmyra 95% Seepage Slope Arkport 5% Seepage Slope
126C	Palmyra gravelly loam 8 to 15 percent slopes	Very limited	Palmyra 90% Seepage Slope Arkport 10% Seepage Slope
126D	Palmyra gravelly loam 15 to 25 percent slopes	Very limited	Palmyra 90% Slope Seepage Arkport 10% Slope Seepage

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
128A	Palmyra gravelly sandy loam 0 to 3 percent slopes	Very limited	Palmyra 90% Seepage Arkport 10% Seepage
128B	Palmyra gravelly sandy loam 3 to 8 percent slopes	Very limited	Palmyra 90% Seepage Slope Arkport 10% Seepage Slope
128C	Palmyra gravelly sandy loam 8 to 15 percent slopes	Very limited	Palmyra 90% Seepage Slope Arkport 10% Seepage Slope
130A	Farmington loam 0 to 3 percent slopes	Very limited	Farmington 90% Depth to bedrock Galoo 5% Depth to bedrock Nuhi 5% Depth to saturated zone Depth to bedrock Water gatering surface
130B	Farmington loam 3 to 8 percent slopes	Very limited	Farmington 90% Depth to bedrock Galoo 5% Depth to bedrock Nuhi 5% Depth to saturated zone Depth to bedrock Water gatering surface
132A	Galoo loam 0 to 3 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Rock outcrop Nuhi 4% Depth to saturated zone Depth to bedrock Rock outcrop Water gatering surface
132B	Galoo loam 3 to 8 percent slopes, rocky	Very limited	Galoo 95% Depth to bedrock Rock outcrop Nuhi 4% Depth to saturated zone Depth to bedrock Rock outcrop Water gatering surface
134A	Camillus silt loam 0 to 3 percent slopes	Very limited	Camillus 95% Depth to bedrock Seepage Water gatering surface Angola 5% Depth to saturated zone Depth to bedrock Water gatering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
134B	Camillus silt loam 3 to 8 percent slopes	Very limited	Camillus 95% Depth to bedrock Seepage Water gathering surface Angola 5% Depth to saturated zone Depth to bedrock Water gathering surface
151C	Willdin-Norchip complex, 3 to 15 percent slopes	Very limited	Willdin 60% Depth to saturated zone Slope Norchip 38% Depth to saturated zone Water gathering surface Palms, undrained 2% Ponding Depth to saturated zone Organic matter content Seepage
152B	Valois gravelly loam 3 to 8 percent slopes	Very limited	Valois 85% Seepage Volusia 5% Depth to saturated zone Water gathering surface
152C	Valois gravelly loam 8 to 15 percent slopes	Very limited	Valois 85% Seepage Slope Volusia 5% Depth to saturated zone Water gathering surface
152D	Valois gravelly loam 15 to 25 percent slopes	Very limited	Valois 85% Slope Seepage Mardin 6% Slope Depth to saturated zone Water gathering surface Cadosia 6% Slope Large stones Volusia 3% Depth to saturated zone Slope Water gathering surface
152E	Valois gravelly loam 25 to 35 percent slopes	Very limited	Valois 85% Slope Seepage Mardin 6% Slope Depth to saturated zone Water gathering surface Cadosia 6% Slope Large stones Towerville, extremely stony 3% Slope Depth to saturated zone Depth to bedrock Large stones

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
153B	Valois gravelly loam cool, 3 to 8 percent	Very limited	Valois, cool 85% Seepage Ontusa 5% Depth to saturated zone Watergathering surface
153C	Valois gravelly loam cool, 8 to 15 percent	Very limited	Valois, cool 85% Seepage Slope Ontusa 5% Depth to saturated zone Watergathering surface
153D	Valois gravelly loam cool, 15 to 25 percent	Very limited	Valois, cool 85% Slope Seepage Rockrift 6% Slope Large stones Wildin 6% Slope Depth to saturated zone Watergathering surface Ontusa 3% Depth to saturated zone Slope Watergathering surface
153E	Valois gravelly loam cool, 25 to 35 percent	Very limited	Valois, cool 85% Slope Seepage Rockrift 6% Slope Large stones Wildin 6% Slope Depth to saturated zone Watergathering surface Ischua 3% Slope Depth to saturated zone Depth to bedrock Watergathering surface
162B	Wildin channery silt loam 3 to 8 percent	Very limited	Wildin 85% Depth to saturated zone Ontusa 5% Depth to saturated zone Watergathering surface Mddlbrook 5% Depth to saturated zone Depth to bedrock Watergathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
162C	Willdin channery silt loam	8 to 15 percent Very dispersive	Willdin 85% Depth to saturated zone Slope Levbat 6% Slope Depth to saturated zone Ontusia 6% Depth to saturated zone Water gathering surface Mddlbrook 3% Depth to saturated zone Depth to bedrock Slope Water gathering surface
162D	Willdin channery silt loam	15 to 25 percent Very dispersive	Willdin 80% Slope Depth to saturated zone Water gathering surface Levbat 10% Slope Depth to saturated zone Mngaup 5% Slope Seepage Depth to bedrock Large stones Ontusia 5% Depth to saturated zone Slope Water gathering surface
168A	Ontusia channery silt loam	0 to 3 percent Very dispersive	Ontusia 88% Depth to saturated zone Water gathering surface Norchip 5% Depth to saturated zone Water gathering surface Willdin 5% Depth to saturated zone Gretor 2% Depth to saturated zone Depth to bedrock Water gathering surface
168B	Ontusia channery silt loam	3 to 8 percent Very dispersive	Ontusia 90% Depth to saturated zone Water gathering surface Willdin 5% Depth to saturated zone Slope Norchip 5% Depth to saturated zone Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
168C	Ontusa channery silt loam 8 to 15 percent slopes	Very limited	Ontusa 90% Depth to saturated zone Slope Water gathering surface Willdin 5% Slope Depth to saturated zone Water gathering surface Norchip 5% Depth to saturated zone Water gathering surface
168D	Ontusa channery silt loam 15 to 25 percent slopes	Very limited	Ontusa 90% Slope Depth to saturated zone Water gathering surface Willdin 7% Slope Depth to saturated zone Water gathering surface Norchip 3% Depth to saturated zone Water gathering surface
171C	Lordstown-Manlius-Towerville complex, 8 to 15 percent slopes, very stony	Very limited	Lordstown, very stony 40% Depth to bedrock Slope Manlius, very stony 20% Depth to bedrock Seepage Slope Large stones Towerville, very stony 20% Depth to saturated zone Depth to bedrock Slope Large stones Marlin, very stony 5% Depth to saturated zone Slope Arnot, very stony 5% Depth to bedrock Slope Large stones



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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171D	Lordstown-Manlius-Towerville complex, 15 to 25 percent slopes, very stony	Very limited	Lordstown, very stony 40% Slope Depth to bedrock Towerville, very stony 20% Slope Depth to saturated zone Depth to bedrock Large stones Manlius, very stony 20% Slope Depth to bedrock Seepage Large stones Cadosia, very stony 10% Slope Water gathering surface Large stones Maradin 5% Depth to saturated zone Slope Arnot, very stony 5% Slope Depth to bedrock Large stones
171E	Lordstown-Manlius-Towerville complex, 25 to 35 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Depth to bedrock Towerville, extremely stony 20% Slope Depth to saturated zone Depth to bedrock Large stones Manlius, extremely stony 20% Slope Depth to bedrock Seepage Large stones Cadosia, extremely stony 10% Slope Water gathering surface Large stones Arnot, very stony 5% Slope Depth to bedrock Large stones Maradin, extremely stony 5% Slope Depth to saturated zone Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
171F	Lordstown-Manlius-Towerville complex, 35 to 60 percent slopes, extremely stony	Very limited	Lordstown, extremely stony 40% Slope Depth to bedrock Towerville, extremely stony 20% Slope Depth to saturated zone Depth to bedrock Large stones Manlius, extremely stony 20% Slope Depth to bedrock Seepage Large stones Cadosa, extremely stony 10% Slope Water gathering surface Large stones Arnot, extremely stony 10% Slope Depth to bedrock Large stones
177A	Norchip silt loam, 0 to 3 percent slopes	Very limited	Norchip 85% Depth to saturated zone Water gathering surface Norchip, very poorly drained 10% Ponding Depth to saturated zone Water gathering surface Ontusa 5% Depth to saturated zone Water gathering surface
177B	Norchip silt loam, 3 to 8 percent slopes	Very limited	Norchip 85% Depth to saturated zone Water gathering surface Norchip, very poorly drained 10% Ponding Depth to saturated zone Water gathering surface Ontusa 5% Depth to saturated zone Slope Water gathering surface
181B	Mongaup-Ischua complex, 3 to 8 percent slopes	Very limited	Mongaup 45% Depth to bedrock Ischua 40% Depth to saturated zone Depth to bedrock Water gathering surface Greer 2% Depth to saturated zone Depth to bedrock Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
181C	Mongaup-Ischua complex, 8 to 15 percent slopes	Very limited	Mongaup 45% Depth to bedrock Slope Ischua 40% Depth to saturated zone Depth to bedrock Slope Water gathering surface Greater 2% Depth to saturated zone Depth to bedrock Slope Water gathering surface
181D	Mongaup-Ischua complex, 15 to 25 percent slopes, very stony	Very limited	Mongaup, very stony 45% Slope Depth to bedrock Ischua, very stony 40% Slope Depth to saturated zone Depth to bedrock Water gathering surface Rockrift 10% Slope Large stones Willdin 3% Slope Depth to saturated zone Water gathering surface Greater 2% Slope Depth to saturated zone Depth to bedrock Water gathering surface
181E	Mongaup-Ischua complex, 25 to 35 percent slopes, extremely stony	Very limited	Mongaup, extremely stony 45% Slope Depth to bedrock Ischua, extremely stony 40% Slope Depth to saturated zone Depth to bedrock Water gathering surface Rockrift 10% Slope Large stones Willdin 3% Slope Depth to saturated zone Water gathering surface Greater 2% Slope Depth to saturated zone Depth to bedrock Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
182B	Mongaup channery loam 3 to 8 percent slopes	Very limited	Mongaup 75% Depth to bedrock Ischua 5% Depth to saturated zone Depth to bedrock Water gathering surface Gretor 2% Depth to saturated zone Depth to bedrock Water gathering surface
182C	Mongaup channery loam 8 to 15 percent slopes	Very limited	Mongaup 75% Depth to bedrock Slope Ischua 5% Depth to saturated zone Depth to bedrock Slope Water gathering surface Gretor 2% Depth to saturated zone Depth to bedrock Slope Water gathering surface
201A	Lima loam 0 to 3 percent slopes	Moderately limited	Lima 85% Depth to saturated zone Seepage, porous bedrock
201B	Lima loam 3 to 8 percent slopes	Moderately limited	Lima 85% Depth to saturated zone Seepage, porous bedrock
201C	Lima loam 8 to 15 percent slopes	Moderately limited	Lima 85% Depth to saturated zone Slope Seepage, porous bedrock
204A	Lima loam 0 to 3 percent slopes, lower clay content	Moderately limited	Lima 85% Depth to saturated zone Seepage, porous bedrock
204B	Lima loam 3 to 8 percent slopes, lower clay content	Moderately limited	Lima 85% Depth to saturated zone Seepage, porous bedrock
210A	Phelps gravelly silt loam 0 to 3 percent slopes	Very limited	Phelps 85% Depth to saturated zone Seepage Water gathering surface Gal en 10% Depth to saturated zone Seepage Water gathering surface Homer 5% Depth to saturated zone Seepage Water gathering surface

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
210B	Phelps gravelly silt loam, 3 to 8 percent slopes	Very limited	Phelps 85% Depth to saturated zone Seepage Water gathering surface Gal en 10% Depth to saturated zone Seepage Water gathering surface Homer 5% Depth to saturated zone Seepage Water gathering surface
212A	Nuhi silt loam, 0 to 3 percent slopes	Very limited	Nuhi 85% Depth to saturated zone Depth to bedrock Water gathering surface Farming ton 10% Depth to bedrock Nuhi, poorly drained 5% Depth to saturated zone Depth to bedrock Water gathering surface
240B	Aurora-Angola silt loams, 3 to 8 percent slopes	Very limited	Aurora 60% Depth to saturated zone Depth to bedrock Water gathering surface Angola 30% Depth to saturated zone Depth to bedrock Water gathering surface Dar i en 5% Depth to saturated zone Water gathering surface Danl ey 5% Depth to saturated zone
240C	Aurora-Angola silt loams, 8 to 15 percent slopes	Very limited	Aurora 60% Depth to saturated zone Slope Depth to bedrock Water gathering surface Angola 30% Depth to saturated zone Depth to bedrock Slope Water gathering surface Dar i en 5% Depth to saturated zone Slope Water gathering surface Danl ey 5% Depth to saturated zone Slope

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
240D	Aurora-Angola silt loams, 15 to 25 percent slopes	Very limited	Aurora 60% Slope Depth to saturated zone Depth to bedrock Water gathering surface Angola 30% Slope Depth to saturated zone Depth to bedrock Water gathering surface Darien 5% Slope Depth to saturated zone Water gathering surface Danley 5% Slope Depth to saturated zone
241B	Aurora silt loam, 3 to 8 percent slopes	Very limited	Aurora 85% Depth to saturated zone Depth to bedrock Water gathering surface Angola 10% Depth to saturated zone Depth to bedrock Water gathering surface Danley 5% Depth to saturated zone
241C	Aurora silt loam, 8 to 15 percent slopes	Very limited	Aurora 85% Depth to saturated zone Slope Depth to bedrock Water gathering surface Angola 8% Depth to saturated zone Depth to bedrock Slope Water gathering surface Danley 7% Depth to saturated zone Slope
241D	Aurora silt loam, 15 to 25 percent slopes	Very limited	Aurora 85% Slope Depth to saturated zone Depth to bedrock Water gathering surface Danley 10% Slope Depth to saturated zone Angola 5% Slope Depth to saturated zone Depth to bedrock Water gathering surface
255B	Cazenovia silt loam, 3 to 8 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Water gathering surface Ovid 10% Depth to saturated zone Water gathering surface Cayuga 5% Depth to saturated zone

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Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
255C	Cazenovia silt loam 8 to 15 percent slopes	Very limited	Cazenovia 85% Depth to saturated zone Slope Water gathering surface Cayuga 8% Depth to saturated zone Slope Ovid 7% Depth to saturated zone Slope Water gathering surface
255D	Cazenovia silt loam 15 to 25 percent slopes	Very limited	Cazenovia 85% Slope Depth to saturated zone Water gathering surface Cayuga 10% Slope Depth to saturated zone Ovid 5% Depth to saturated zone Slope Water gathering surface
260B	Cayuga silt loam 3 to 8 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Schoharie 10% Depth to saturated zone Water gathering surface Odessa 5% Depth to saturated zone Water gathering surface
260C	Cayuga silt loam 8 to 15 percent slopes	Very limited	Cayuga 85% Depth to saturated zone Slope Schoharie 10% Depth to saturated zone Slope Water gathering surface Odessa 5% Depth to saturated zone Water gathering surface Slope
260D	Cayuga silt loam 15 to 25 percent slopes	Very limited	Cayuga 85% Slope Depth to saturated zone Lansing 10% Slope Seepage, porous bedrock Schoharie 5% Slope Depth to saturated zone Water gathering surface

## Emergency Disposal by Shallow Burial

Aggregation Method: Dominant Component  
 Tie-break Rule: Higher

Ontario County, New York  
 Survey Area Version and Date: 19 - 09/01/2021

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
304A	Kendai a loam 0 to 3 percent slopes	Very limited	Kendai a 85% Depth to saturated zone Water gathering surface Seepage, porous bedrock Lyons 5% Depth to saturated zone Water gathering surface Seepage, porous bedrock Chur chville 2% Depth to saturated zone Water gathering surface Ovid 2% Depth to saturated zone Water gathering surface
304B	Kendai a loam 3 to 8 percent slopes	Very limited	Kendai a 85% Depth to saturated zone Water gathering surface Seepage, porous bedrock Lyons 4% Depth to saturated zone Water gathering surface Seepage, porous bedrock Chur chville 2% Depth to saturated zone Water gathering surface Ovid 2% Depth to saturated zone Water gathering surface
342A	Angola silt loam 0 to 3 percent slopes	Very limited	Angola 90% Depth to saturated zone Depth to bedrock Water gathering surface Ili on 5% Depth to saturated zone Water gathering surface Dari en 5% Depth to saturated zone Water gathering surface
356A	Ovid silt loam 0 to 3 percent slopes	Very limited	Ovid 85% Depth to saturated zone Water gathering surface Odessa 10% Depth to saturated zone Water gathering surface Lakemont 5% Depth to saturated zone Water gathering surface
356B	Ovid silt loam 3 to 8 percent slopes	Very limited	Ovid 85% Depth to saturated zone Water gathering surface Odessa 10% Depth to saturated zone Water gathering surface Lakemont 5% Depth to saturated zone Water gathering surface



## Emergency Disposal by Shallow Burial

Aggregation Method: Dominant Component  
 Tie-break Rule: Higher

Ontario County, New York  
 Survey Area Version and Date: 19 - 09/01/2021

Map symbol	Map unit name	Rating	Component name and % composition Rating reasons
357B	Ovid silty clay loam 3 to 8 percent slopes	Very limited	Ovid 85% Depth to saturated zone Water gathering surface Odessa 10% Depth to saturated zone Water gathering surface Lakemont 5% Depth to saturated zone Water gathering surface
357C	Ovid silty clay loam 8 to 15 percent slopes	Very limited	Ovid 85% Depth to saturated zone Water gathering surface Slope Odessa 10% Depth to saturated zone Water gathering surface Slope Lakemont 5% Depth to saturated zone Water gathering surface
400A	Udorthents, loamy, 0 to 3 percent slopes	Very limited	Udorthents, loamy 80% Seepage Palmyra 5% Seepage Howard 5% Seepage
401D	Udorthents, refuse substratum 0 to 25 percent slopes	Not rated	Udorthents, refuse substratum 90%
PG	Pits, gravel and sand	Not rated	Pits, gravel and sand 75%
PQ	Pits, quarry	Not rated	Pits, quarry 80%
W	Water	Not rated	Water 100%

# Emergency Disposal by Shallow Burial

## Rating Options

Attribute Name: Emergency Disposal by Shallow Burial

"Emergency Animal Mortality Disposal by Shallow Burial" is a method of disposing of depopulated animals as a result of a large scale natural disaster. Catastrophic events include, but are not limited to, hurricanes, wildfires, flooding, and tornados. This disposal method employs a shallow trench, about 2 feet deep and wide enough to accommodate the animal. The trench is first lined with 6 to 12 inches of carbonaceous material, such as corn stalks or wood chips. The animal is placed in a single layer in the excavation. When the trench is full, a final cover of soil material at least 2 feet deep, is placed over the burial pit and vegetation is established. Soils are rated based on their limitation for use following a catastrophic event. Limitations for burial of large animals after or during a catastrophic event are: contamination of ground water, trafficability of excavation equipment, site selection, and site reclamation.

While some general observations may be made, onsite evaluation is required before the final site is selected. In site selection, design, or installation may cause contamination of ground water, seepage, and contamination of stream, surface drainage or floodwater. Potential contamination may be reduced or eliminated by installing systems designed to reduce the effects of the limiting soil property. The rating is for soils in their present condition and does not include any use.

Since this is a new interpretation, users are encouraged to give feedback as to the usefulness of the interpretation and the appropriateness of the criteria. Comments may be sent through the Soils Hotline (SoilsHotline@in.usda.gov).

Ratings are based on the soil properties and qualities normally observed (to a depth of approximately 6 or 7 feet) in soil mapping. These investigations, which are generally arranged by the pit developer, include the examination of strata, soil formations, and geologic conditions that may allow leachates to enter aquifers, wells, water courses, and other water bodies. Nonrippable bedrock, bedrock crevices, or highly permeable strata in or immediately underlying the proposed pit are undesirable because of the difficulty in excavation and the potential contamination of ground water.

Properties that influence the risk of contamination of ground water, ease of excavation, trafficability, and reclamation considerations. Soils that flood or have a water table within the depth of excavation present a potential contamination problem. Soils that are difficult to excavate. Slope is an important consideration because it affects the work involved in road construction, performance of the roads, and the control of surface water around the site. It may also make pit construction difficult. The bottom must be kept level and oriented to follow the contour.

The ease with which the pit is dug and with which a soil can be used as daily and final covers is based largely on the consistence of the soil. Soil texture and consistence determine the degree of workability of the soil both when dry and when wet. Soils that are plastic and sticky when wet are difficult to excavate, grade, or compact and difficult to place a final cover over a layer of carcasses. The uppermost part of the final cover should be soil material that is favorable for the specified use. It should not contain excess sodium or salt and should not be too acid. In comparison with other horizons, the A horizon has the best workability and the highest content of organic matter. Thus, for a "Large Animal Disposal, Burial" the A horizon is desirable to stockpile the surface layer for use in the final blanketing of the filled pit area.

The ratings are both verbal and numerical. Rating class terms indicate the extent to which the soils are limited by soil features that affect these uses. Numerical ratings indicate the severity of the individual limitations. The ratings are fractions ranging from 0.01 to 1.00. They indicate gradations between the point at which a soil feature has the greatest impact on the use (1.00) and the point at which the soil feature is not a limitation (0.00).

Verbal ratings are defined as follows:

**Not limited (rating index equals 0).** The limitation for large animal disposal during a catastrophic event is not limited. The soil is able to support standard excavation equipment, the risk of ground-water contamination is minimal, and soil reclamation and conventional processes is possible. The soil has features that are very favorable for the specified use. Very good performance and very low maintenance can be expected if the system is properly designed and installed.

**Slightly limited (rating index is greater than 0 but less than 0.30).** The limitation for large animal disposal during a catastrophic event is slightly limited. There are one or more soil properties that pose a slight limitation for contamination of ground water, site reclamation, or excavation equipment. The soil has features that are favorable for the specified use. The limitations can be overcome or minimized by special planning, design, or installation. Good performance and low maintenance can be expected.

**Somewhat limited (rating index is greater than 0.30 but less than 0.80).** The limitation for large animal disposal during a catastrophic event is somewhat limited. The soil has features that are moderately favorable for the specified use. More than one soil properties that pose a limitation for contamination of ground water, site reclamation, or excavation equipment. Corrective measures needed to overcome these limitations are considered economical; however, special care must be taken. The limitations can be overcome or minimized by special planning, design, or installation. Fair performance and moderate maintenance can be expected.

**Severely limited (rating index is greater than 0.80 but less than 0.99).** The limitation for large animal disposal during a catastrophic event is severely limited. The soil has features that are unfavorable for the specified use; there are more than one soil properties that pose a limitation for contamination of ground water, site reclamation, or excavation equipment. The limitations can be overcome or minimized by special planning, design, or installation; however, correction measures are costly. High performance and high maintenance can be expected.

## Emergency Disposal by Shallow Burial

Very severely limited (rating index equals 1.0). The limitation for large animal disposal during a catastrophic event is severely limited. There are one or more soil properties that pose a very severe limitation for contamination of ground water or excavation equipment. The limitations generally cannot be overcome without major soil reclamation, special decontamination installation procedures. Very poor performance and very high maintenance can be expected.

The map unit components listed for each map unit in the accompanying Summary by Map Unit table in Web Soil Survey are determined by the aggregation method chosen. An aggregated rating class is assigned to each map unit. The components listed for each map unit are only those that have the same rating class as listed. The percent composition of each component in a particular map unit is provided to help the user better understand the composition of each map unit that has the rating presented.

Other components with different ratings may be present in each map unit. The ratings for all components, regardless of the aggregated rating, can be viewed by generating the equivalent report from the Soil Reports tab in Web Soil Survey. Onsite investigation may be needed to validate these interpretations and to confirm the identification of the given site.

Reference:

Flory, G.A., R.W. Peer, R.A. Clark, M.N. Baccar, T.T. Le, A.B. Mbarek, and S. Farsi. 2017. Aboveground burial for the reduction of catastrophic losses of livestock. *International Journal of One Health* 3: 50-56.

Aggregation Method: Dominant Component

Aggregation is the process by which a set of component attribute values is reduced to a single value to represent the whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some rock, e.g., rock outcrop. The components in the map unit name represent the major soils within a map unit delineation. Other components make up the balance of the map unit. Great differences in soil properties can occur between map units and within short distances. Minor components may be very different from the major components. Such differences significantly affect use and management of the map unit. Minor components may or may not be documented in the data. The results of aggregation do not reflect the presence or absence of limitations of the components which are not listed. An on-site investigation is required to identify the location of individual map unit components.

For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60% of the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical attribute, but not all, aggregation methods.

For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each component. From this set of component attributes, the next step of the aggregation process derives a single value for the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be created. Aggregation must be done because, on any soil map, map units are delineated but components are not.

The aggregation method "Dominant Component" returns the attribute value associated with the component with the highest percent composition in the map unit. If more than one component shares the highest percent composition, the corresponding rule determines which value should be returned. The "tie-break" rule indicates whether the lower or higher attribute value should be returned in the case of a percent composition tie. The result returned by this aggregation method may or may not be the dominant condition throughout the map unit.

Tie-break Rule: Higher

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.