

Figure 3-133
Spectral Acceleration

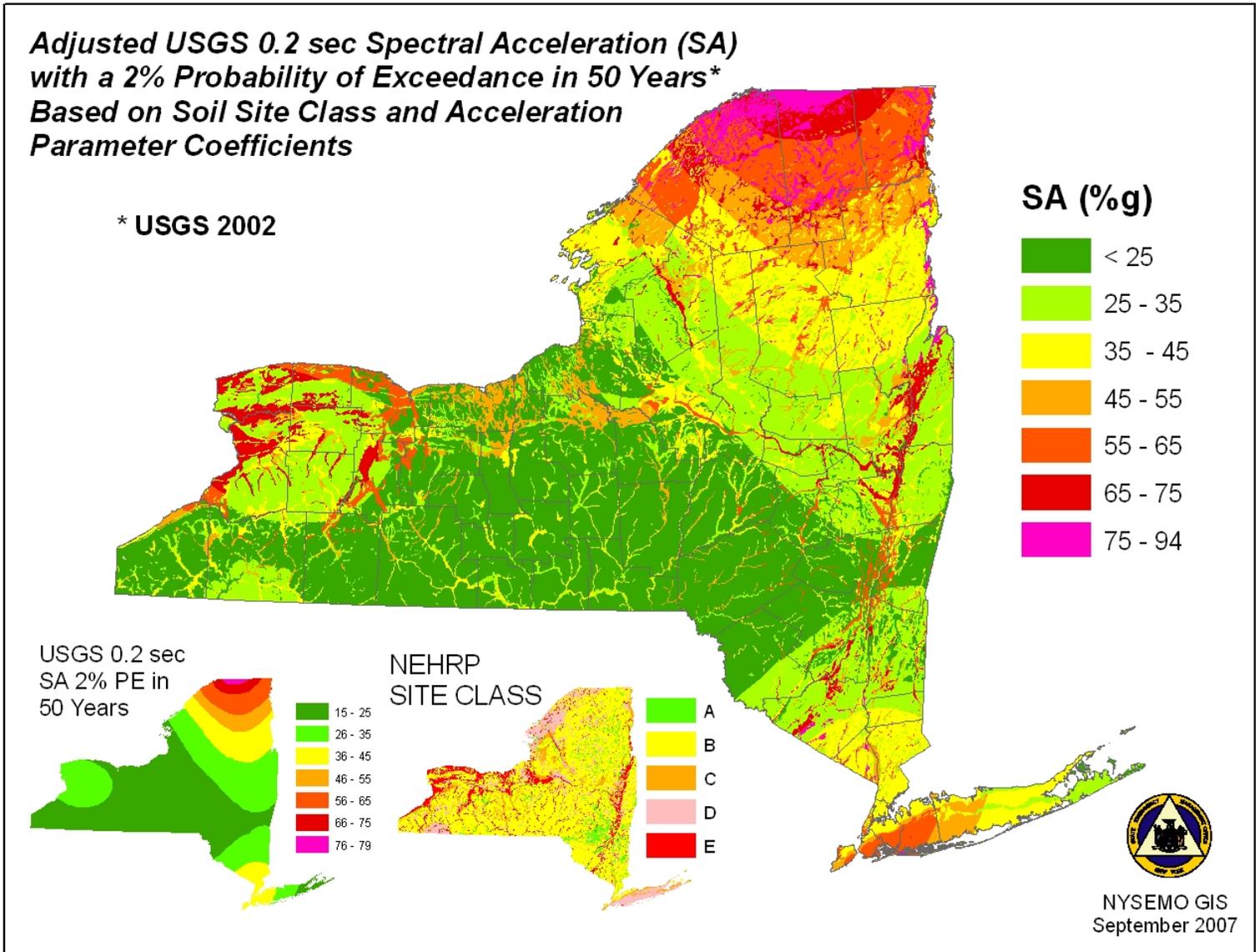


Figure 3-134

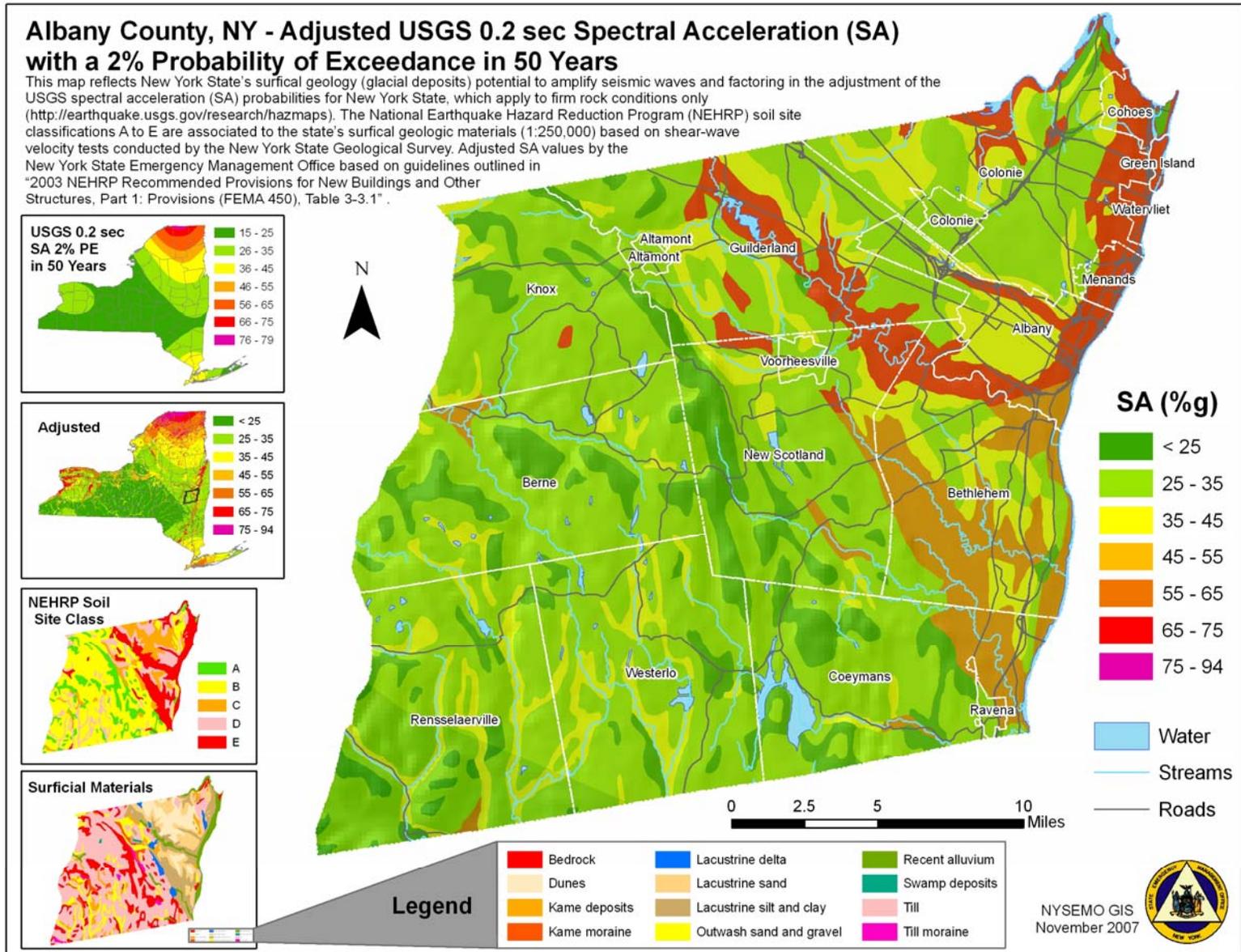


Figure 3-135

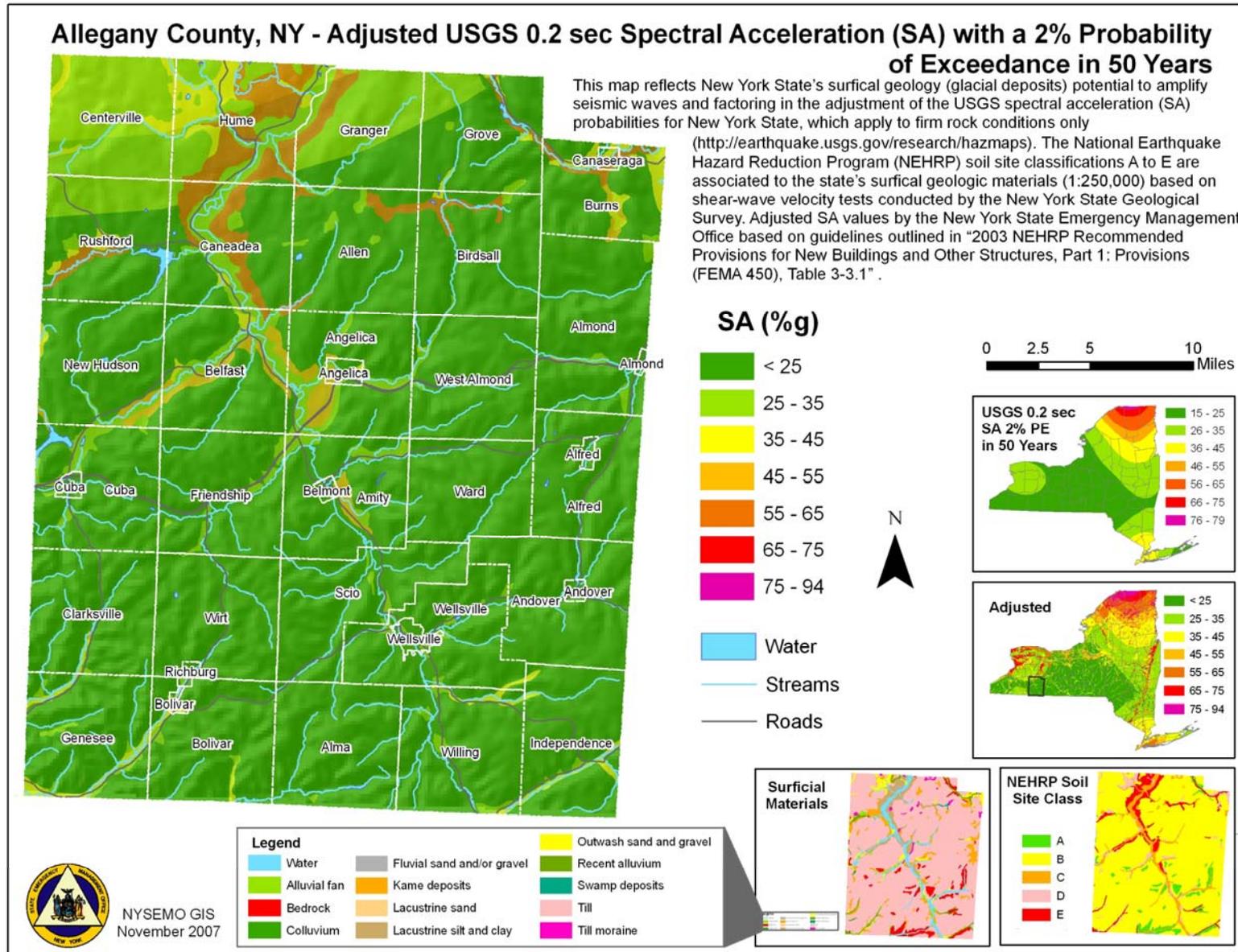


Figure 3-136

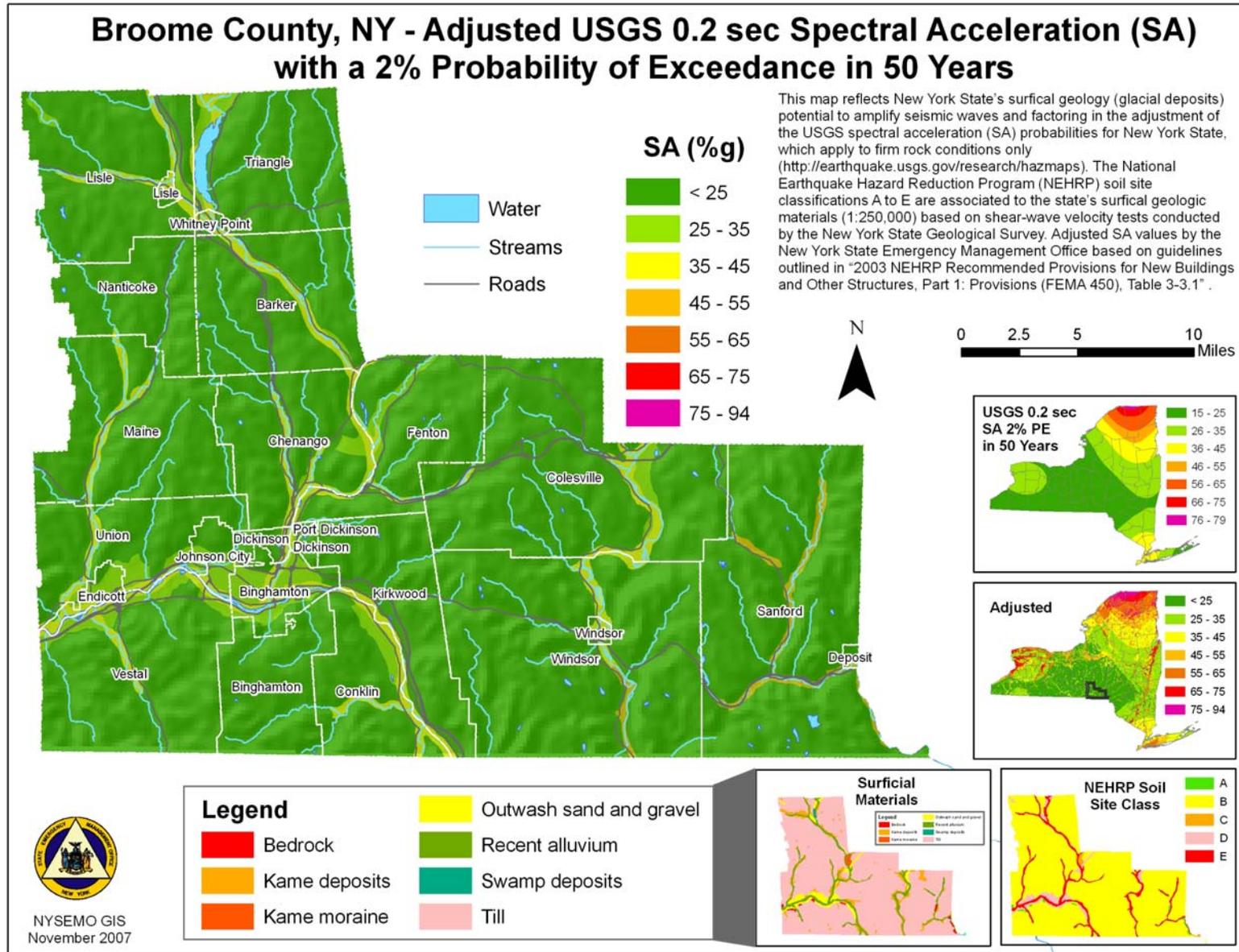


Figure 3-137

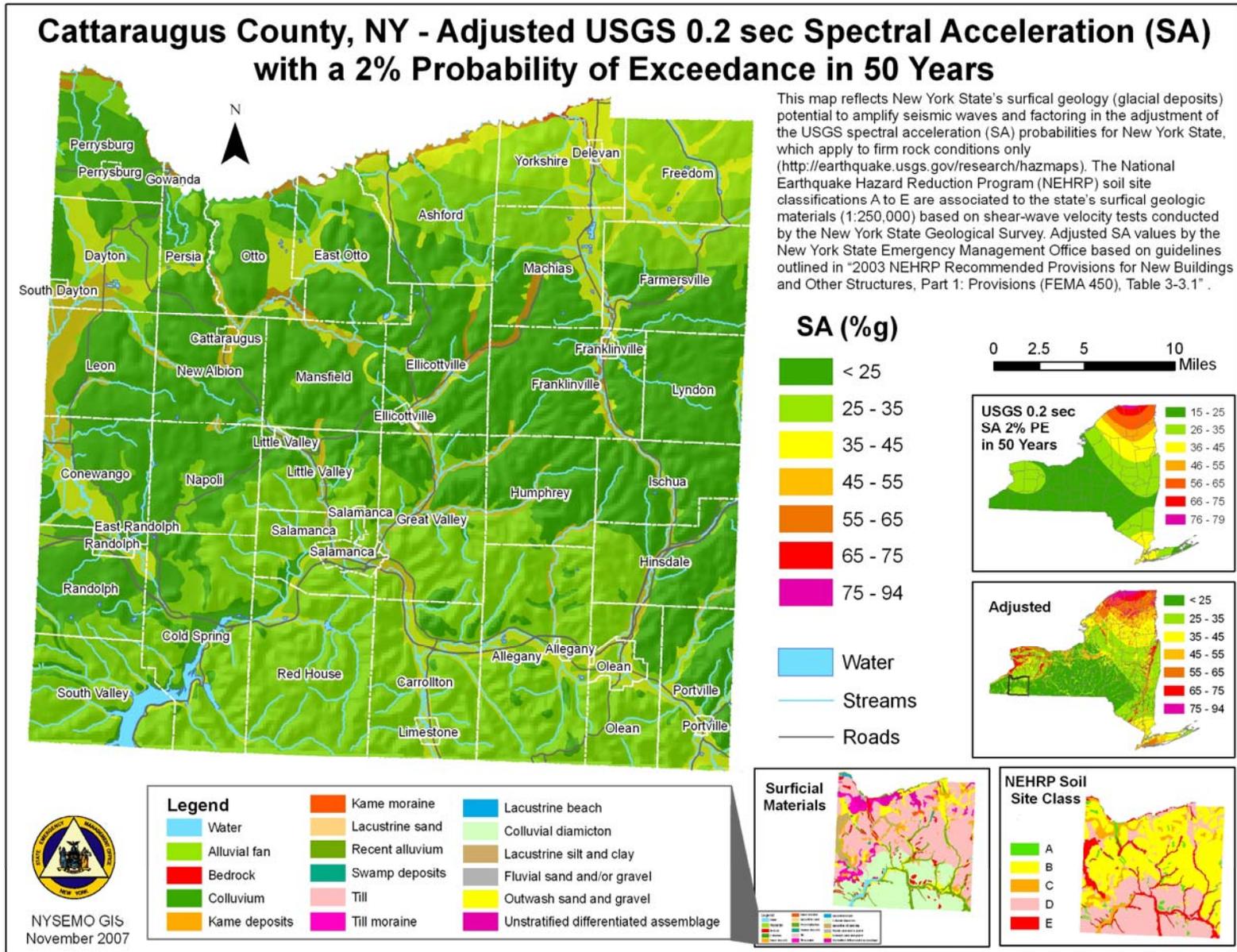


Figure 3-138

Cayuga County, NY - Adjusted USGS 0.2 sec Spectral Acceleration (SA) with a 2% Probability of Exceedance in 50 Years

This map reflects New York State's surficial geology (glacial deposits) potential to amplify seismic waves and factoring in the adjustment of the USGS spectral acceleration (SA) probabilities for New York State, which apply to firm rock conditions only (<http://earthquake.usgs.gov/research/hazmaps>). The National Earthquake Hazard Reduction Program (NEHRP) soil site classifications A to E are associated to the state's surficial geologic materials (1:250,000) based on shear-wave velocity tests conducted by the New York State Geological Survey. Adjusted SA values by the New York State Emergency Management Office based on guidelines outlined in "2003 NEHRP Recommended Provisions for New Buildings and Other Structures, Part 1: Provisions (FEMA 450), Table 3-3.1".

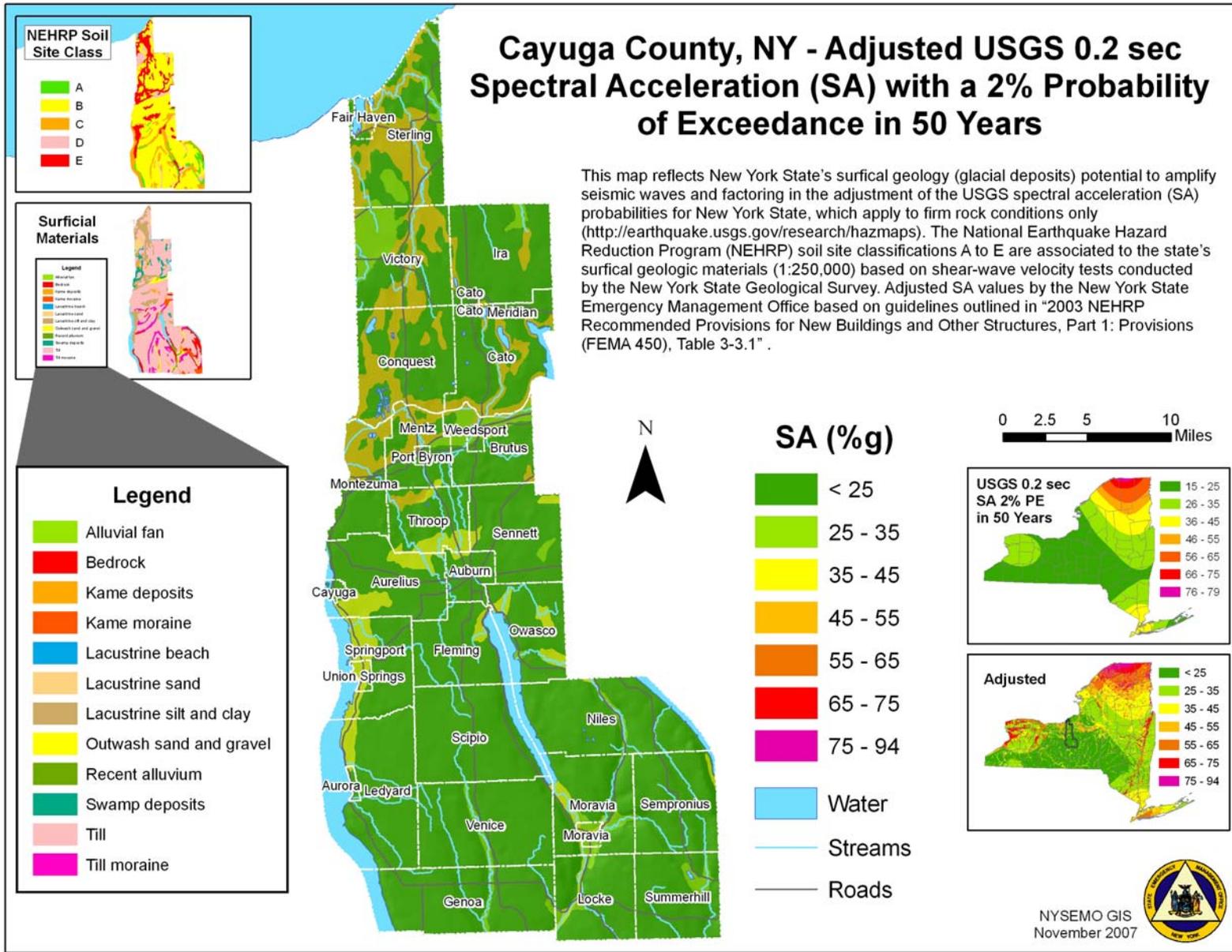


Figure 3-139

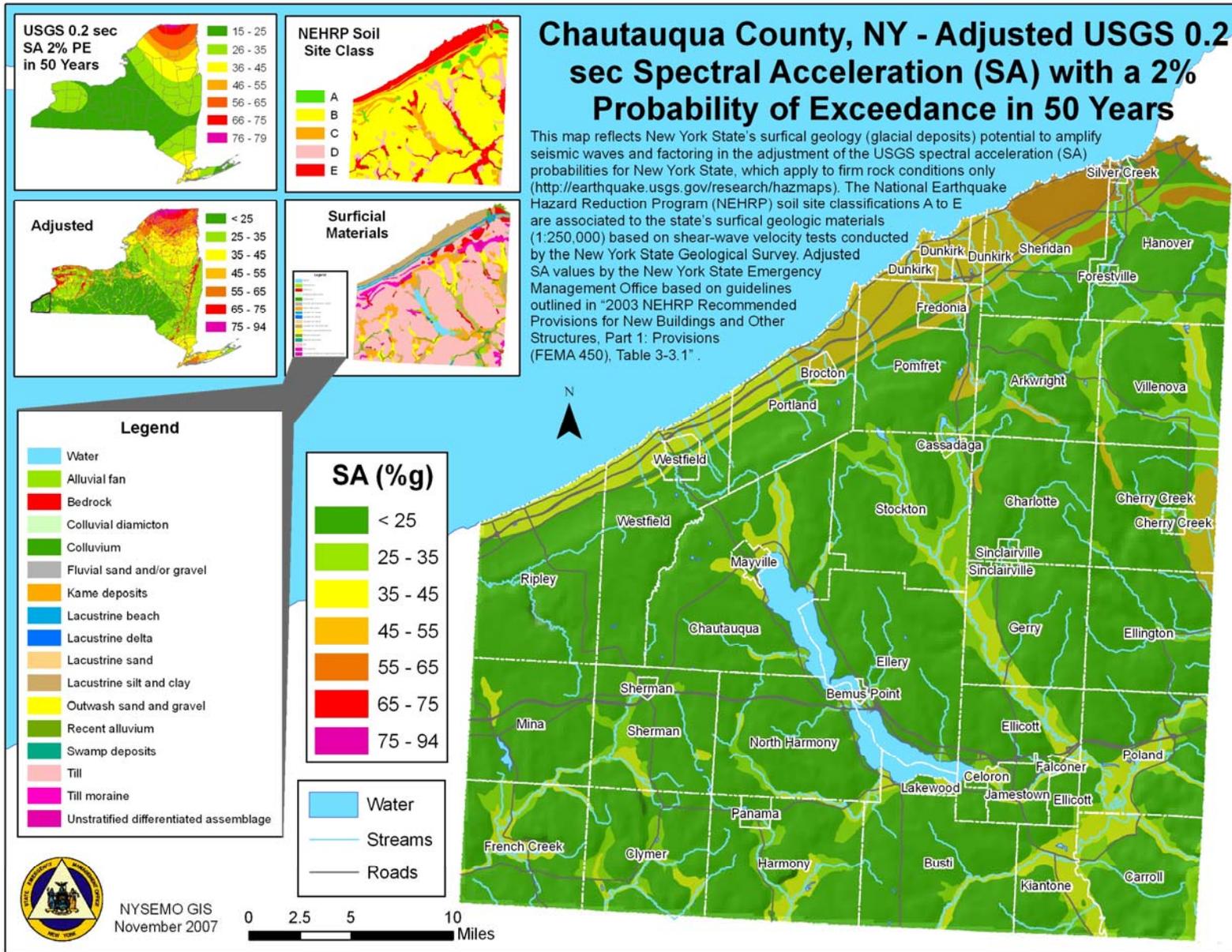


Figure 3-140

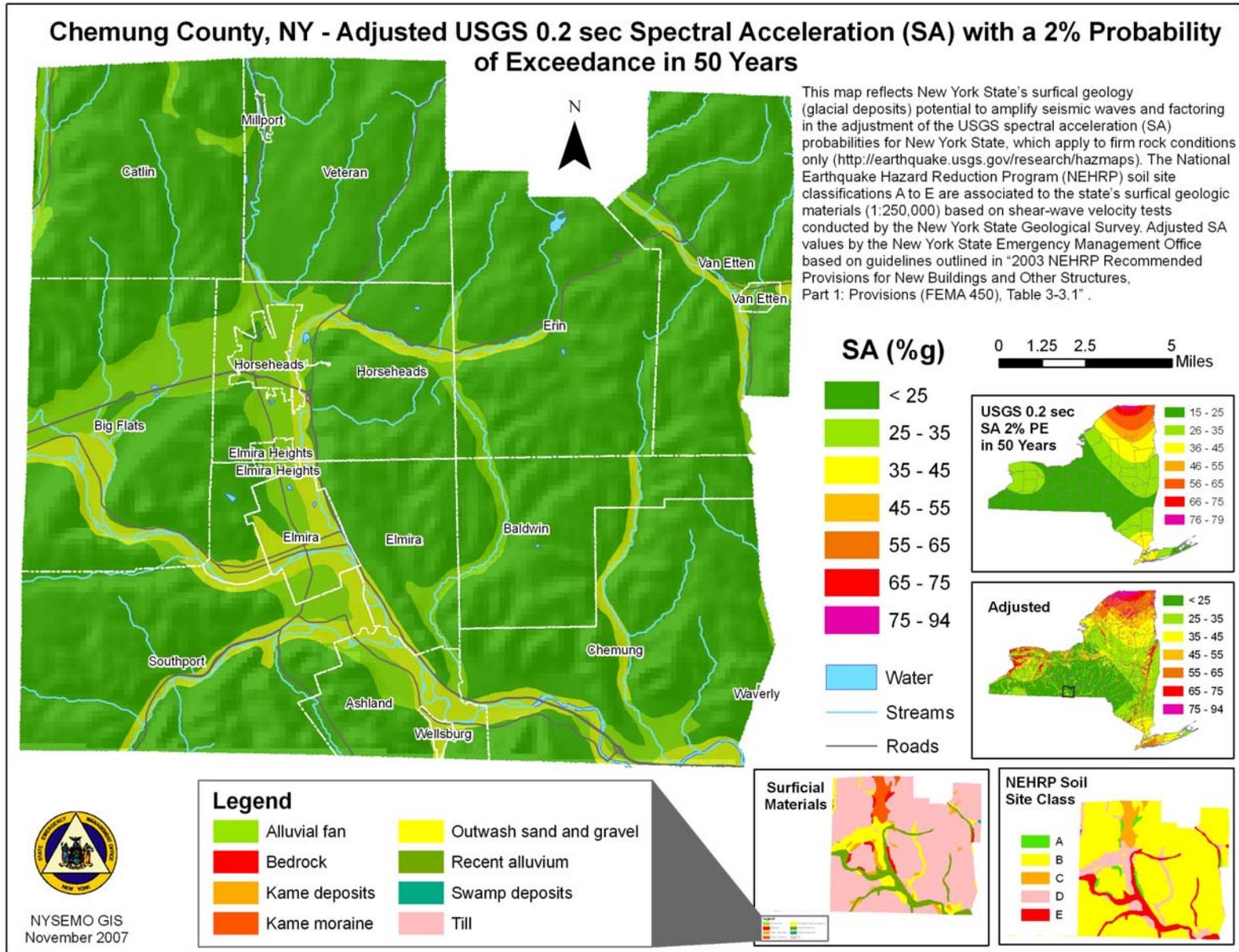


Figure 3-141

Chenango County, NY - Adjusted USGS 0.2 sec Spectral Acceleration (SA) with a 2% Probability of Exceedance in 50 Years

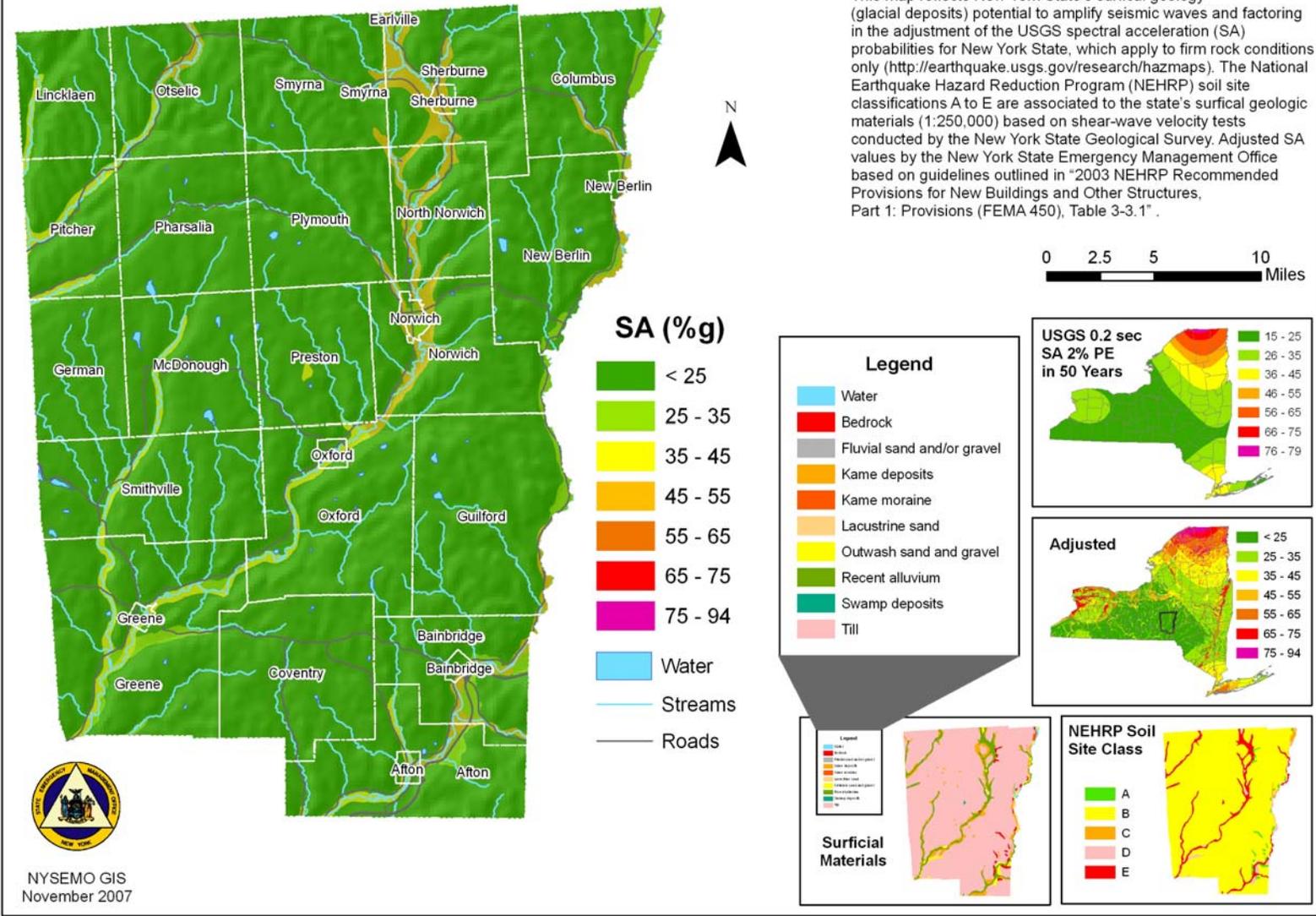


Figure 3-143

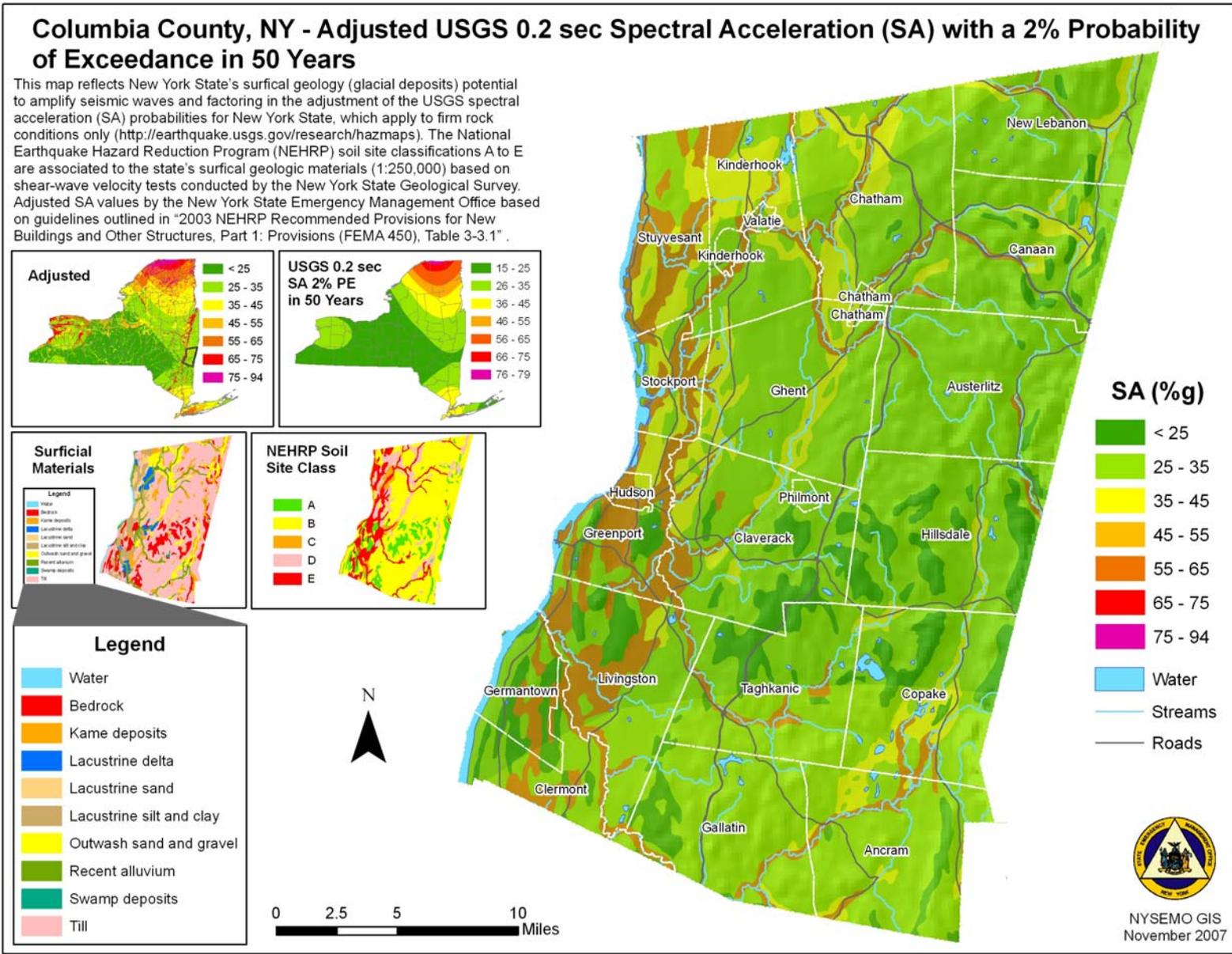


Figure 3-144

Cortland County, NY - Adjusted USGS 0.2 sec Spectral Acceleration (SA) with a 2% Probability of Exceedance in 50 Years

This map reflects New York State's surficial geology (glacial deposits) potential to amplify seismic waves and factoring in the adjustment of the USGS spectral acceleration (SA) probabilities for New York State, which apply to firm rock conditions only (<http://earthquake.usgs.gov/research/hazmaps>). The National Earthquake Hazard Reduction Program (NEHRP) soil site classifications A to E are associated to the state's surficial geologic materials (1:250,000) based on shear-wave velocity tests conducted by the New York State Geological Survey. Adjusted SA values by the New York State Emergency Management Office based on guidelines outlined in "2003 NEHRP Recommended Provisions for New Buildings and Other Structures, Part 1: Provisions (FEMA 450), Table 3-3.1".

Legend

- Water
- Bedrock
- Kame deposits
- Kame moraine
- Lacustrine silt and clay
- Outwash sand and gravel
- Recent alluvium
- Till
- Till moraine

SA (%g)

N

< 25

25 - 35

35 - 45

45 - 55

55 - 65

65 - 75

75 - 94

Water

Streams

Roads

Surficial Materials

Legend

- Water
- Bedrock
- Kame deposits
- Kame moraine
- Lacustrine silt and clay
- Outwash sand and gravel
- Recent alluvium
- Till
- Till moraine

NEHRP Soil Site Class

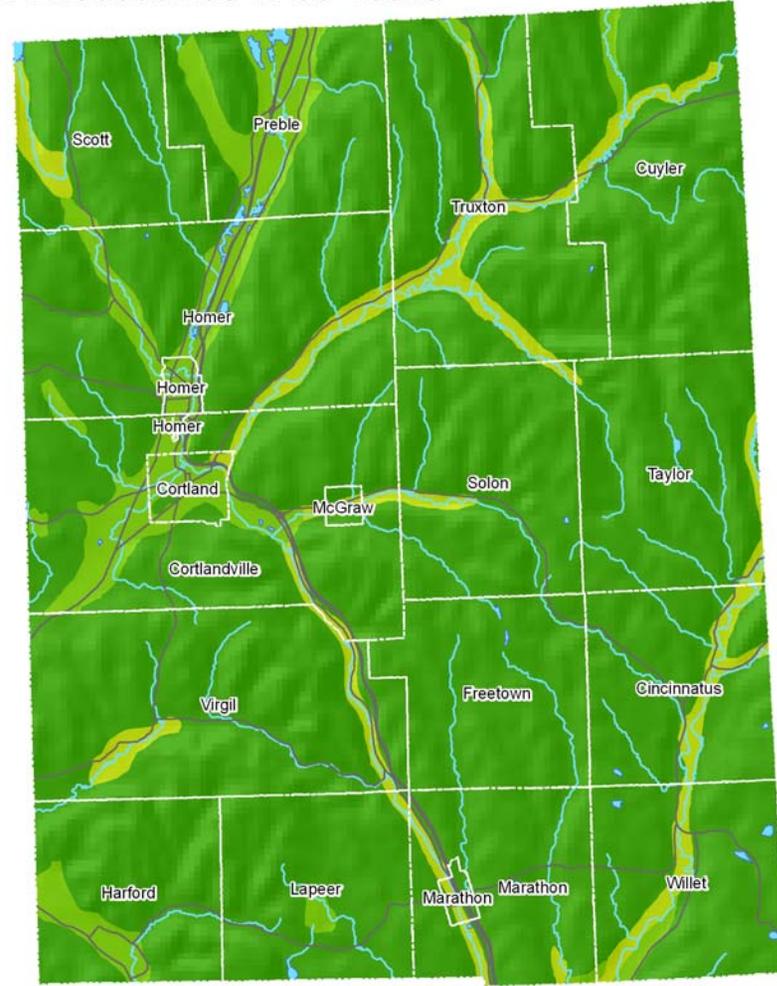
- A
- B
- C
- D
- E

Adjusted

- < 25
- 25 - 35
- 35 - 45
- 45 - 55
- 55 - 65
- 65 - 75
- 75 - 94

USGS 0.2 sec SA 2% PE in 50 Years

- 15 - 25
- 26 - 35
- 36 - 45
- 46 - 55
- 56 - 65
- 66 - 75
- 76 - 94



NYSEMO GIS
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Figure 3-145

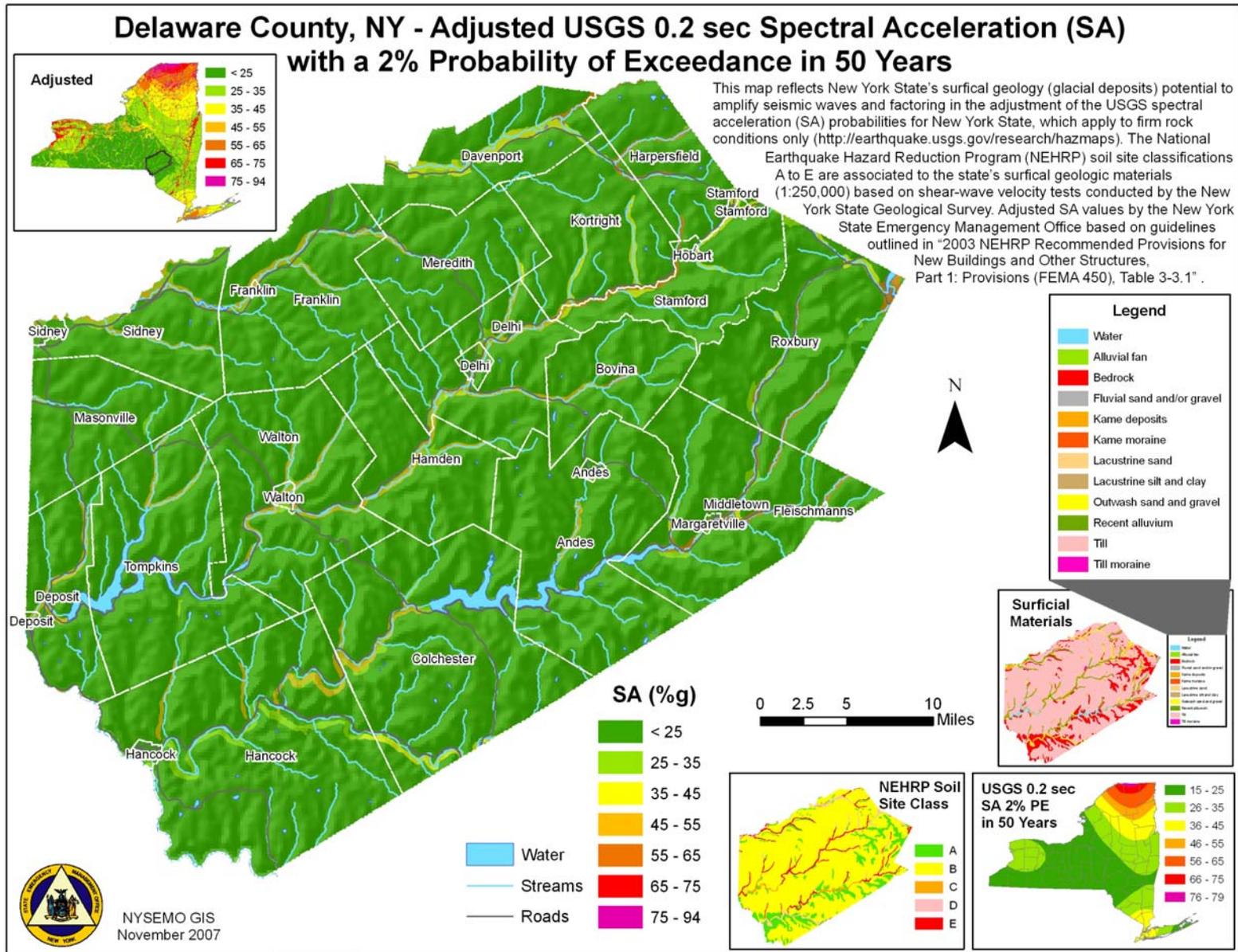


Figure 3-146

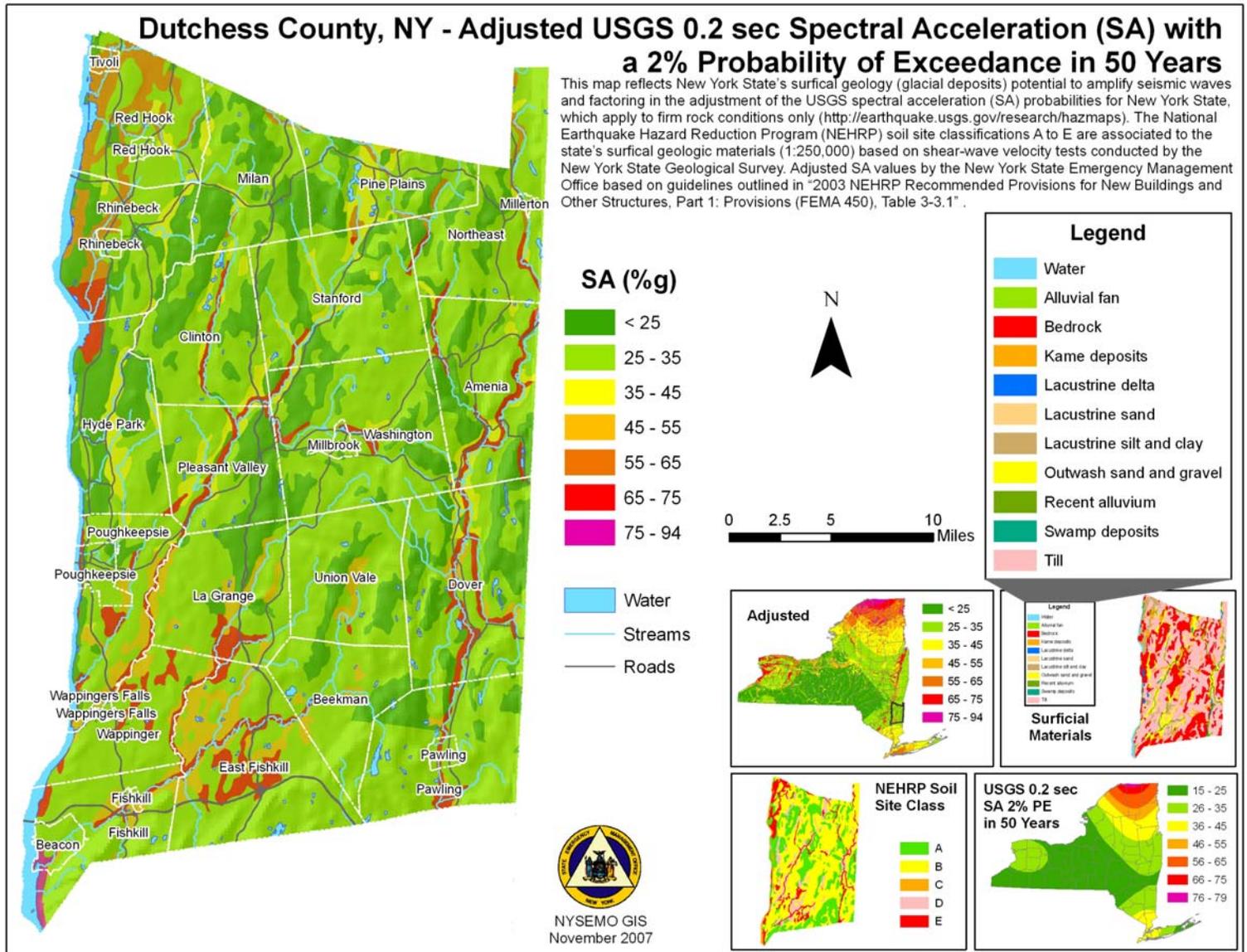


Figure 3-147

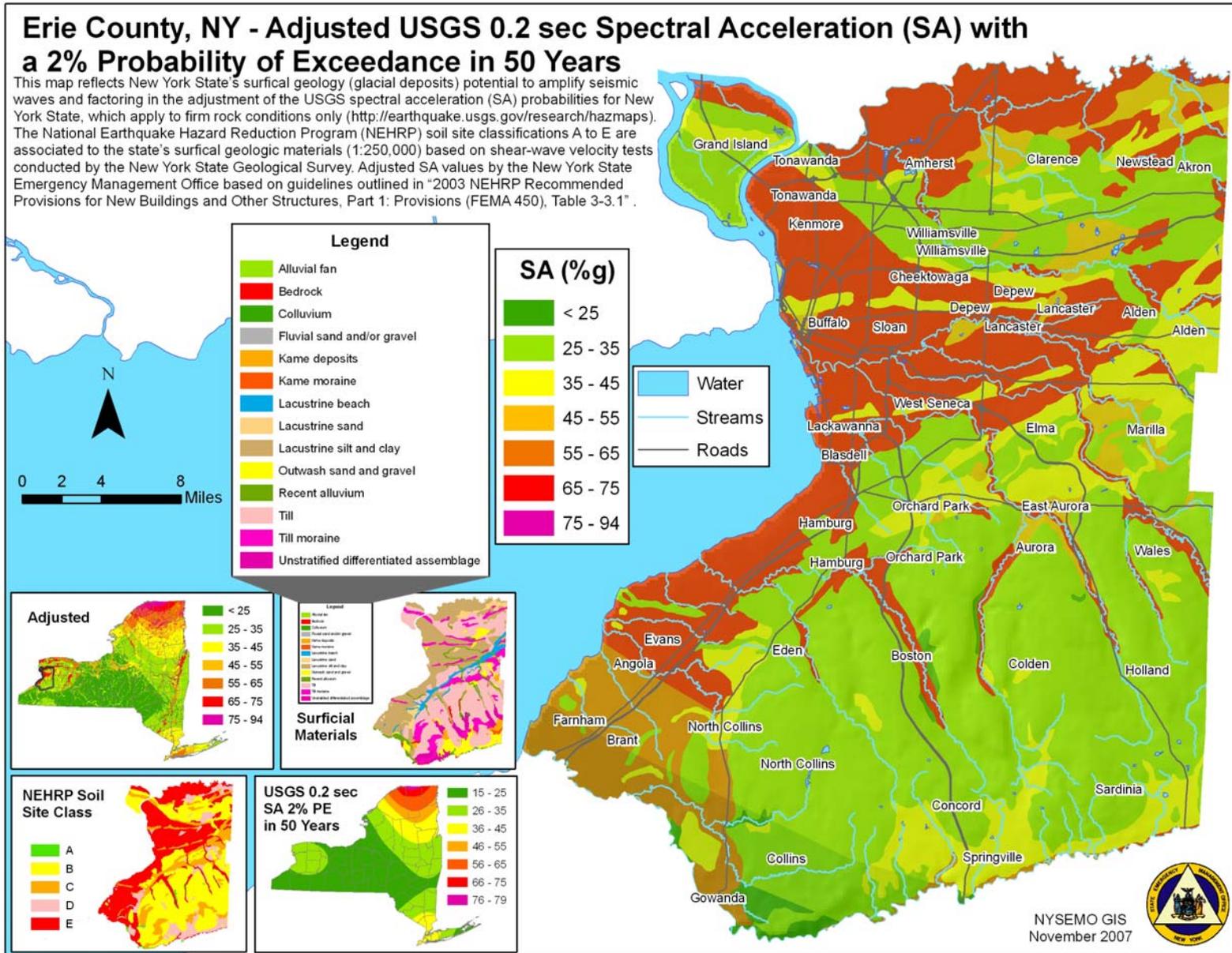


Figure 3-148

Essex County, NY - Adjusted USGS 0.2 sec Spectral Acceleration (SA) with a 2% Probability of Exceedance in 50 Years

This map reflects New York State's surficial geology (glacial deposits) potential to amplify seismic waves and factoring in the adjustment of the USGS spectral acceleration (SA) probabilities for New York State, which apply to firm rock conditions only (<http://earthquake.usgs.gov/research/hazmaps>). The National Earthquake Hazard Reduction Program (NEHRP) soil site classifications A to E are associated to the state's surficial geologic materials (1:250,000) based on shear-wave velocity tests conducted by the New York State Geological Survey. Adjusted SA values by the New York State Emergency Management Office based on guidelines outlined in "2003 NEHRP Recommended Provisions for New Buildings and Other Structures, Part 1: Provisions (FEMA 450), Table 3-3.1"

Legend		
	Lacustrine delta	Lacustrine beach
	Lacustrine sand	Swamp deposits
	Alluvial terrace	Outwash sand and gravel
	Kame deposits	Lacustrine silt and clay
	Marine beach	Fluvial sand and/or gravel
	Recent alluvium	Undifferentiated marine and lacustrine sand
	Till moraine	Undifferentiated marine and lacustrine silt

