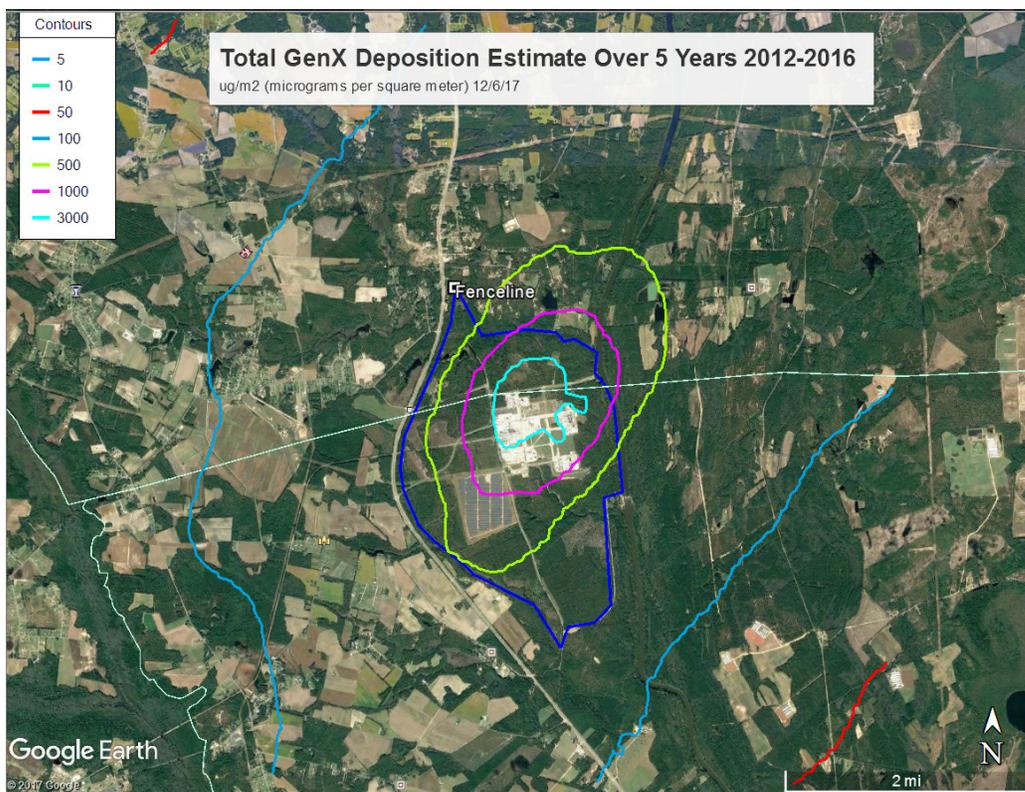
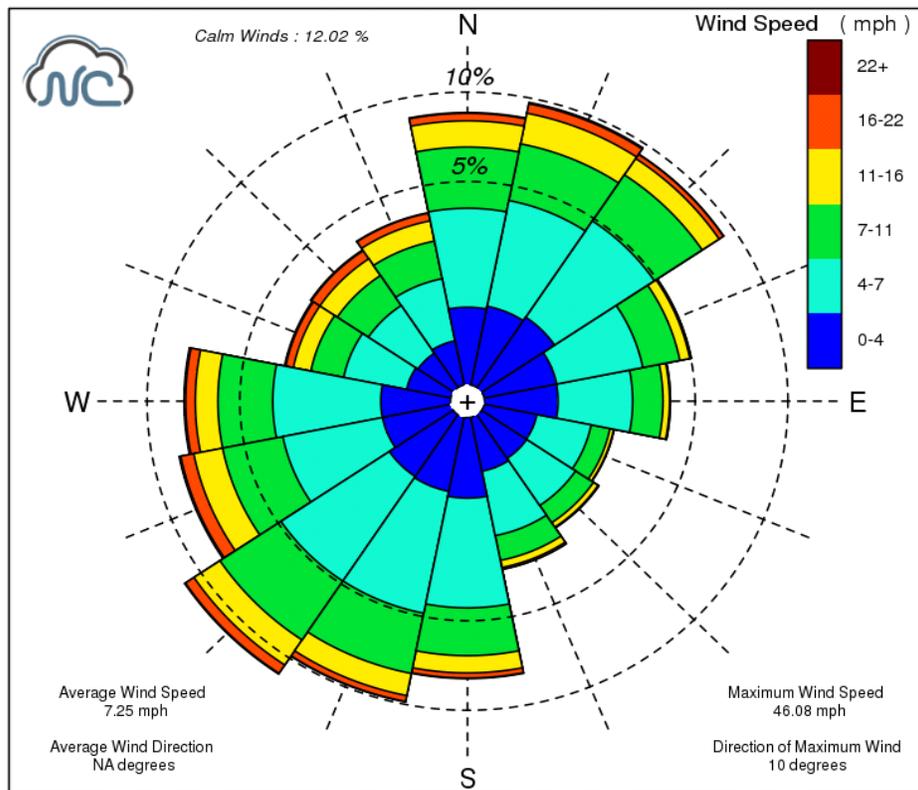


Division of Air Quality, North Carolina Department of Environmental Quality

A wind rose is a graphic tool used by meteorologists to give a succinct view of how wind speed and direction are typically distributed at a given location. Using a polar coordinate system of gridding, the frequency of winds over a designated time period is plotted by wind direction, with color bands showing wind speed ranges. The direction of the longest spoke shows the wind direction with the greatest frequency.

As applied to wind speed and direction near the Chemours Fayetteville Works site, this wind rose developed by the Division of Air Quality demonstrates a predominantly southwest to northeast pattern. This was a factor used in developing the Deposition Estimate map below, which applies 2012-2016 wind patterns to identify likely areas where GenX could have been transported by air to locations near the facility.

Wind Rose for Fayetteville Airport (KFAY)
Jan. 10, 1998 to Sep. 29, 2017



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