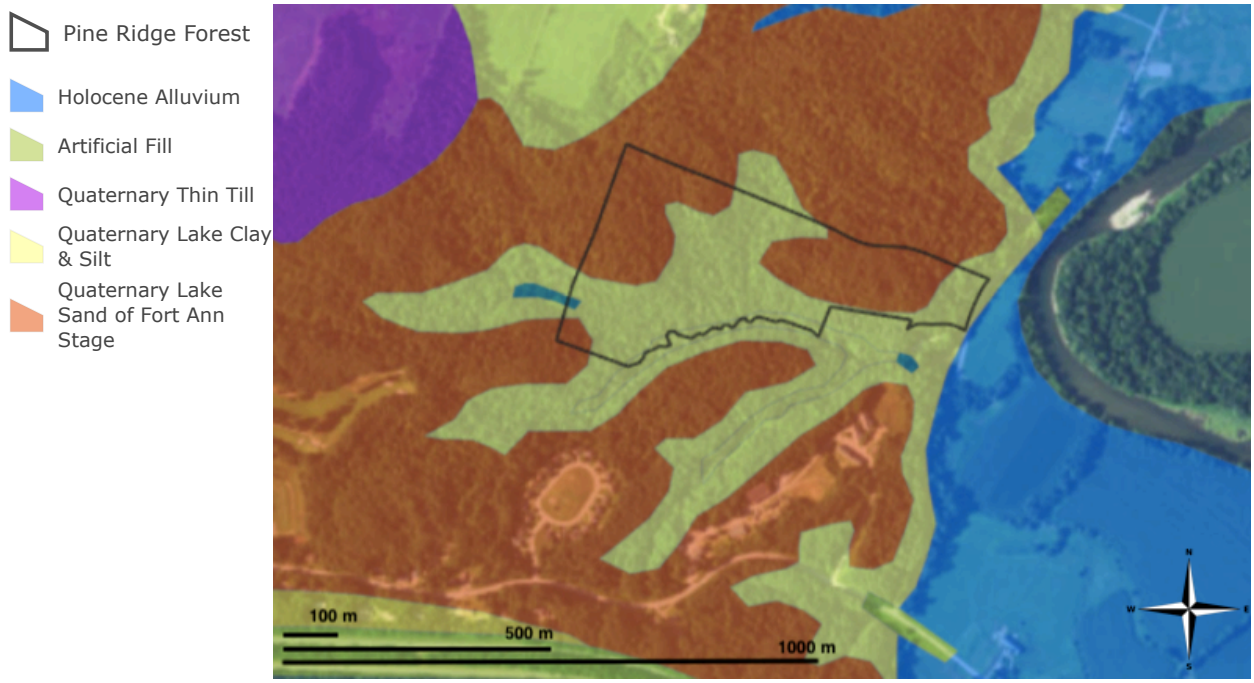
Supplemental Information (Surgical Geology)
Pine Ridge Forest, Williston, VT



A map of the surgical geology of the town of Williston can be found here.

Holocene Alluvium (Hal)
Composed of silt, sand, and pebble, cobble and boulder gravel deposited by modern streams. This includes: stream channel and bar deposits; finer-grained floodplain deposits; and minor wetland deposits. Thickness varies greatly and tends to be thicker in the Winooski River floodplain. Intermediate to low permeability. These areas tend to be flooded seasonally.

Artificial Fill (FA)
Artificially placed earth along roads, railroad tracks, embankments and low lying areas. There is extensive fill along the highway and can be seen in the above map in the southwestern corner as a green overlay.

Quaternary Thin Till (Qtt)
Thin deposits that are poorly sorted diamict with angular to sub-angular clasts in silt to clay matrixes. Generally less than 3 meters thick commonly found with rock outcroppings. Occurs on steep slopes and generally has low permeability making it a poor aquifer.

Quaternary Lake Clay & Silty (Qfc)
Fine grained carved or finely laminated deposits of silt and clay. Gravel and sand lenses can occasionally be found at deeper levels. It is a poor aquifer and poorly drained, which makes it prone to landslides and gully forming. Lake sediments can be thick in flat areas and think on any slope, like in this parcel. Steep slopes of Qfc that leads down to alluvium areas are predisposed to stream bank failure and headward erosion of slopes.

Quaternary Lake Sand of Fort Ann Stage (Qfsfa)
Similar to Quaternary Lake Sand, Qfsfa is also well sorted. It has laminated fine to medium sand underlying plains, which is prone to gully forming and headward erosion. Highly erodible; good aquifer if thick, but poor if there is only a thin layer. Mostly deposited by deltaic environments

Springston, G. and DeSimone D. (2007). Plate 1: *Surficial Geologic Map of the Town of Williston, VT* [map]. 1:24,000. Vermont Geologic Survey Open File Resport, map

VG07-5. Waterbury, VT: Vermont Agency of Natural Resources. Retrieved from https://dec.vermont.gov/sites/dec/files/geo/OpenFile/VG075WillistonSurf.pdf

Vtanrgis (2010). *Surficial Geology - 24K - Surficial and Glacial Materials* [spatial dataset]. Vermont Agency of Natural Resouces Open Data. Retrieved from http://geodata.vermont.gov/datasets/VTANR::surficial-geology-24k-surficial-and-glacial-materials