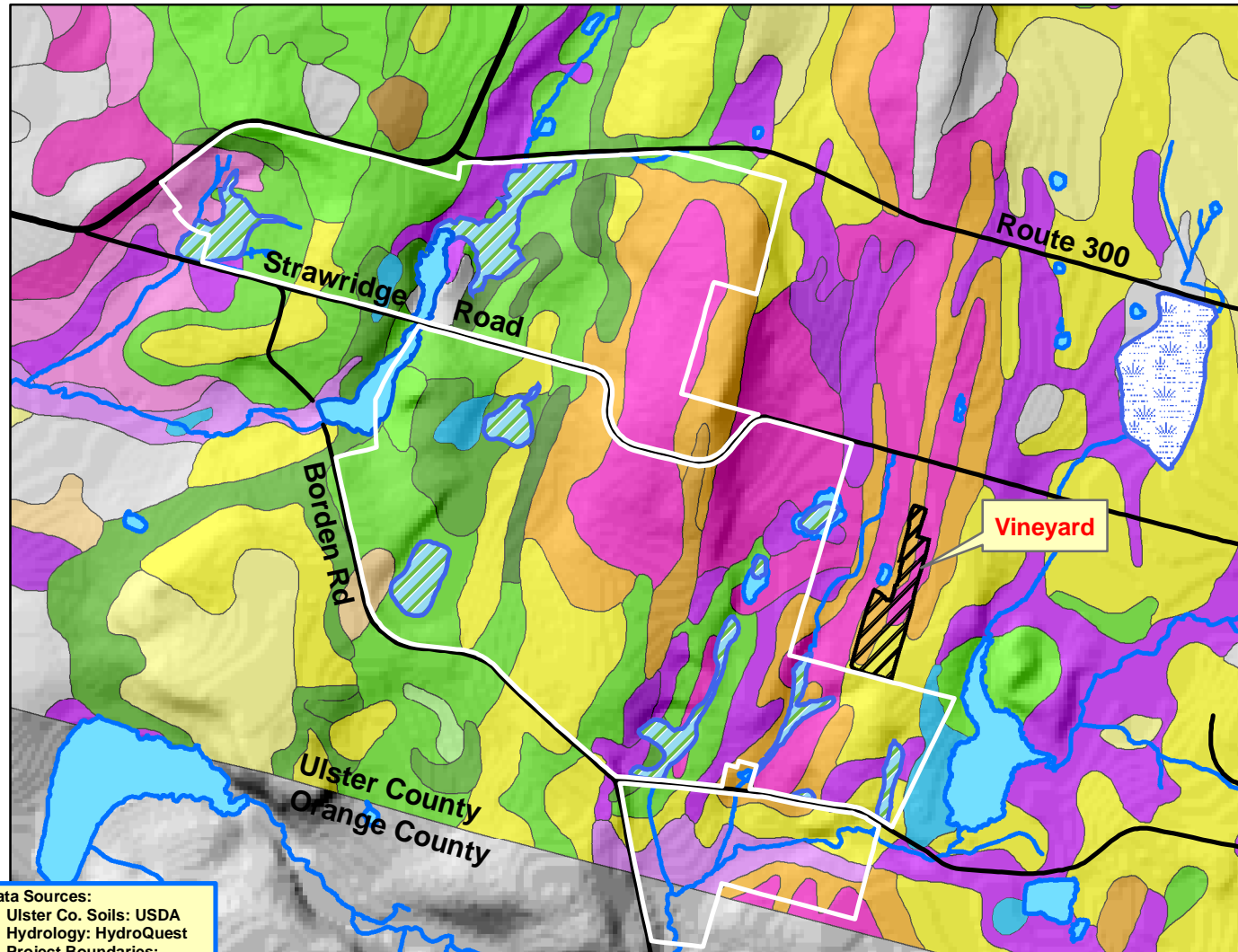
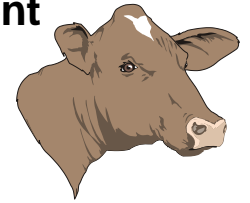


Evaluation of Alternate Land Use Options for the Proposed Donner Development

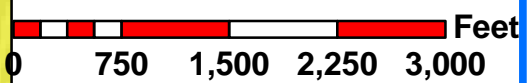
Soil Suitability Analysis for Grape Vineyards: Assessment Based on Soil Permeability in Surficial 28 inches, Southeastern NYS



Legend

Soil Names - USDA Soil Texture - Soil Permeability

- Other soil series (not listed on this map)
- HgA - Hoosic gravelly (sandy) loam: 2.0-6.0 in/hr
- HgB - Hoosic gravelly (sandy) loam: 2.0-6.0 in/hr
- HgC - Hoosic gravelly (sandy) loam: 2.0-6.0 in/hr
- HgD - Hoosic gravelly (sandy) loam: 2.0-6.0 in/hr
- HsF - Hoosic gravelly (sandy) loam: 2.0-6.0 in/hr
- CgA - Castile gravelly silt loam: 0.6-6.0 in/hr
- CnA - Chenango gravelly silt loam: 0.6-6.0 in/hr
- CnB - Chenango gravelly silt loam: 0.6-6.0 in/hr
- At - Atherton silt loam: 0.6-2.0 in/hr
- BgC - Bath gravelly silt loam: 0.6-2.0 in/hr
- BgD - Bath gravelly silt loam: 0.6-2.0 in/hr
- CvB - Churchville silt loam: 0.6-2.0 to <0.2 in/hr
- MdB - Mardin gravelly silt loam: 0.6-2.0 to <0.2 in/hr
- CkC - Cayuga silt loam: 0.6-2.0 to 0.06-.2 in/hr
- Wb - Wayland silt loam: 0.2-2.0 to 0.06-0.2 in/hr
- Ma - Madalin silty clay loam: 0.2-0.6 to 0.06-0.2 in/hr
- RhA - Rhinebeck silt loam: 0.2-0.6 to 0.06-0.2 in/hr
- Gravel Pit
- Water
- Donner Trust Parcels
- Magnanini Vineyard
- Borden Farm Area Roads
- The Hatch
- Streams
- Ponds



Data Sources:
 Ulster Co. Soils: USDA
 Hydrology: HydroQuest
 Project Boundaries:
 Engineering Properties
 Orthoimagery: OCS&CIC
 DEMs: USGS/NYSDEC
 Projection: UTM (meters)
 Datum: NAD27, Zone 18
 Soils Digitizing: D. Carpino
 Cartography: HydroQuest
 Prepared For: Friends of
 Borden Home Farm 1-07

The Magnanini Farm Winery thrives on Bath (BgC), Chenango (CnB), and Mardin (MdB) series soils. These glacial outwash and till soils are characterized by their moderate to coarse, well-drained, textures. Site-specifically, their moderate permeability provides for both adequate drainage and sufficient soil moisture for most of the growing season. Historically, similar and higher permeability soils on Borden Farm lands were used for grape wine cultivation. Also, moderate south-sloping sites are available for expansion.

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Soils C