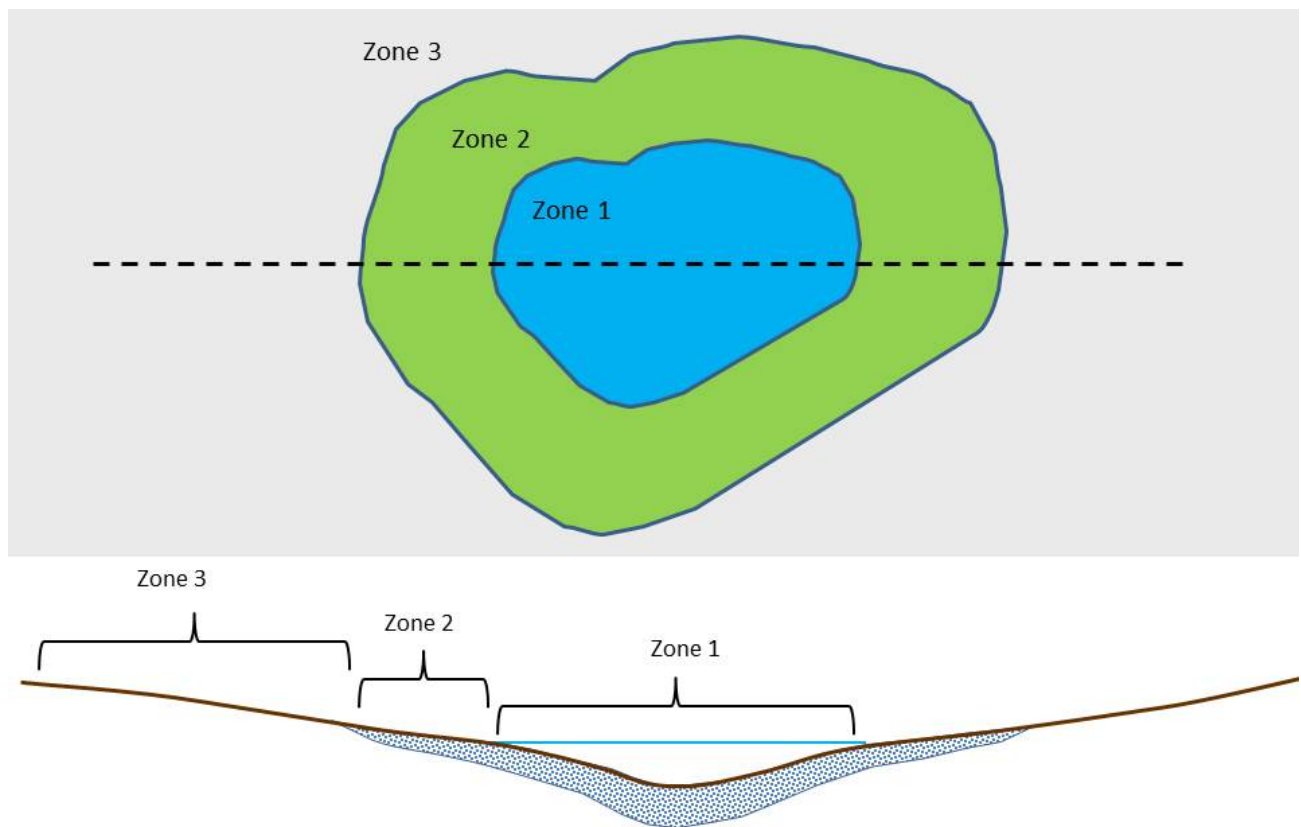


Table 1. Anticipated groupings of vernal pool sites.		
Group	States	Vernal Pool Type
Ridge and Valley	VA, WV, PA	Oxbow scars and similar depressional landforms on terraces and floodplains
Coastal Plain	MD, DE	Delmarva Bays
Glaciated Northeast	RI, MA	Kettle Holes



- Zone 1** - ponded zone; ponded water likely to recede below the surface during the summer months
- Zone 2** - non-ponded wetland zone, containing hydric soils
- Zone 3** - non-wetland (upland) zone

Figure 1. A schematic diagram showing the three hydrological zones and a cross section through a typical vernal pool wetland.

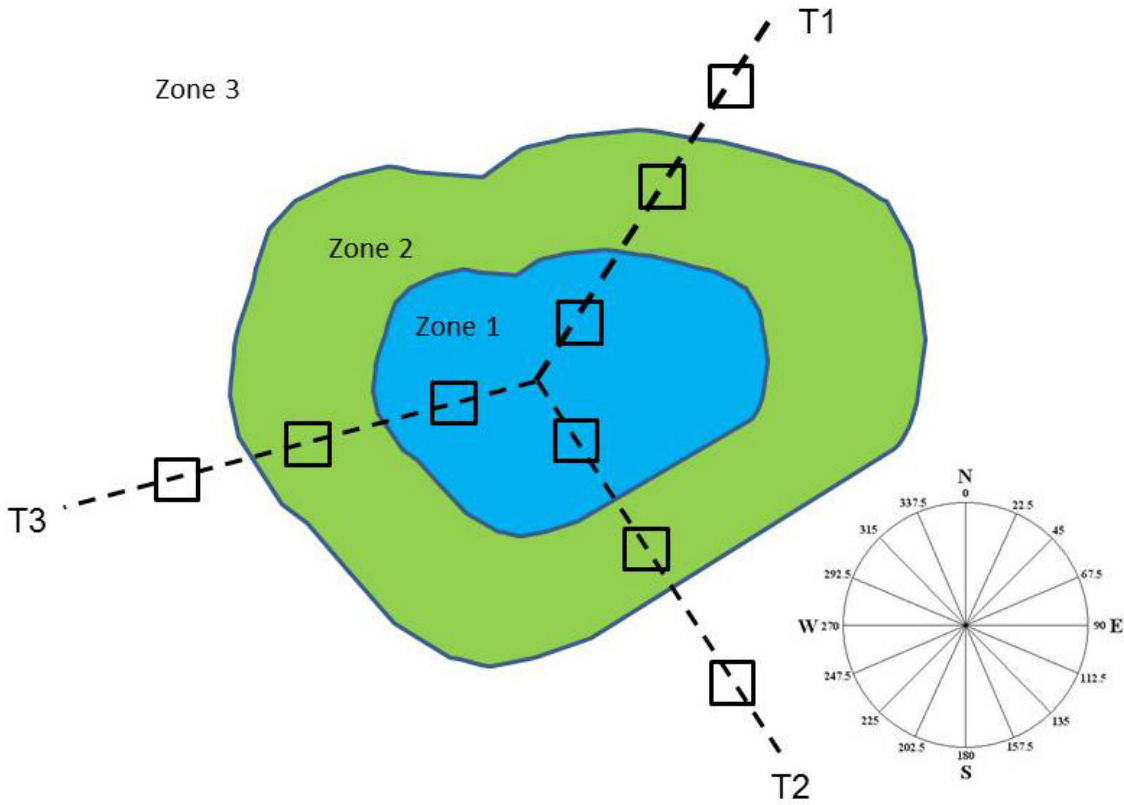


Figure 2. Three radially orientated transects in a vernal pool, with each containing plots in each of the three hydrological zones.

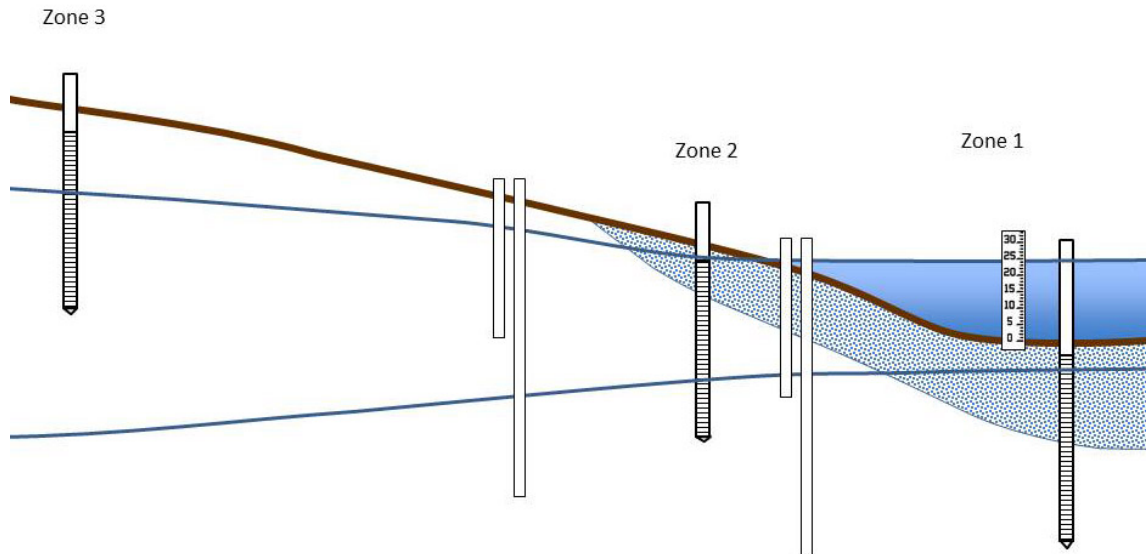


Figure 3. Schematic cross section of a vernal pool wetland instrumented with water table observation portals in each of the three hydrological zones. Nests of piezometers will be installed along one transect to elucidate hydrological conditions. Documentation of ponding will be assisted by installation of a staff gauge.

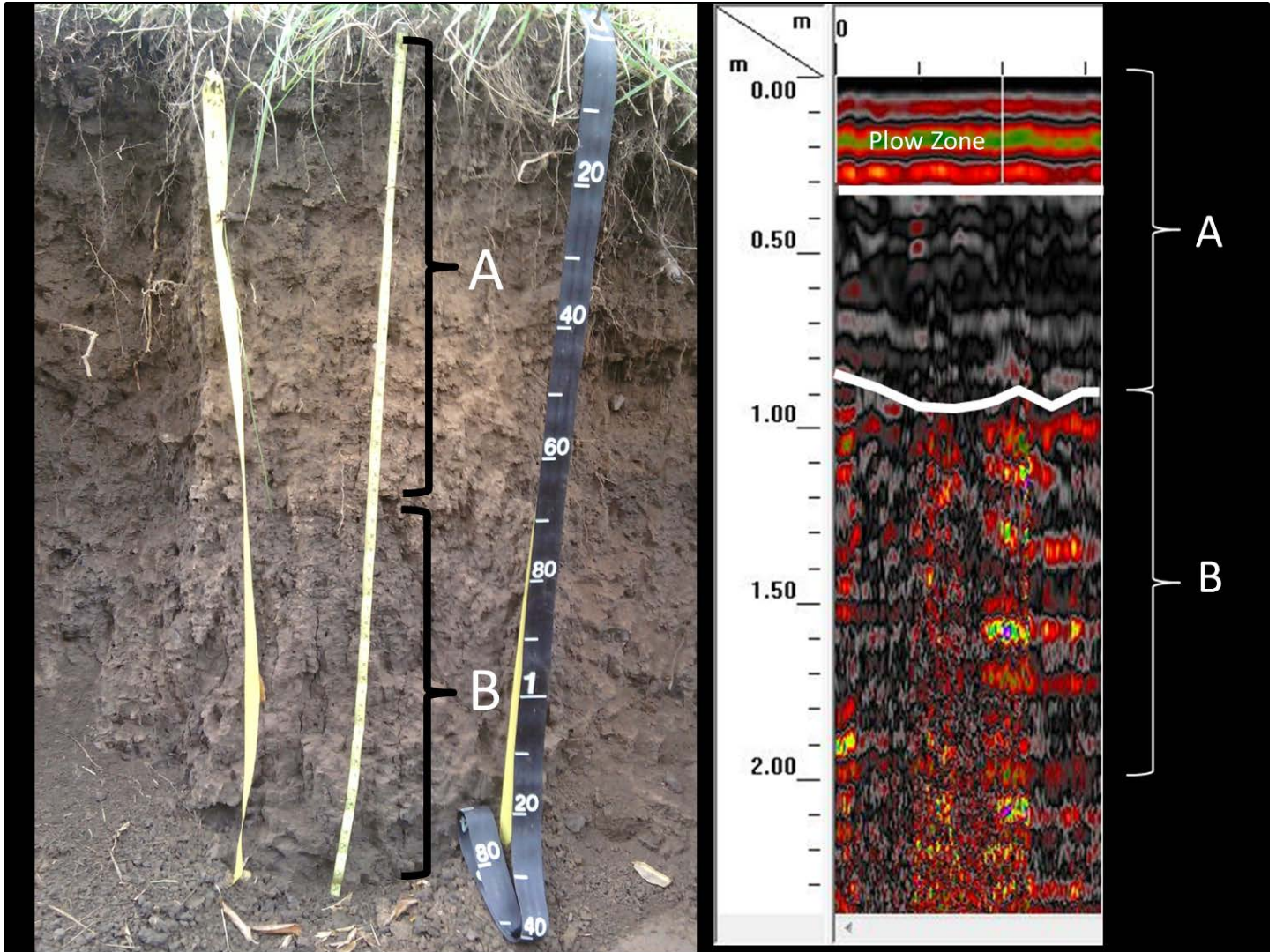


Figure 4. Ground-penetrating radar (400 MHz antennae) plot of a floodplain riparian soil showing subsurface morphology. Soil A is post-European erosional deposition while soil B is the pre-European surface with high SOC.