

**2nd National Workshop on Subaqueous Soils
Kingston, Rhode Island August 9-12, 2010**



Pedon Descriptions



Pedon Descriptions – generator and snips



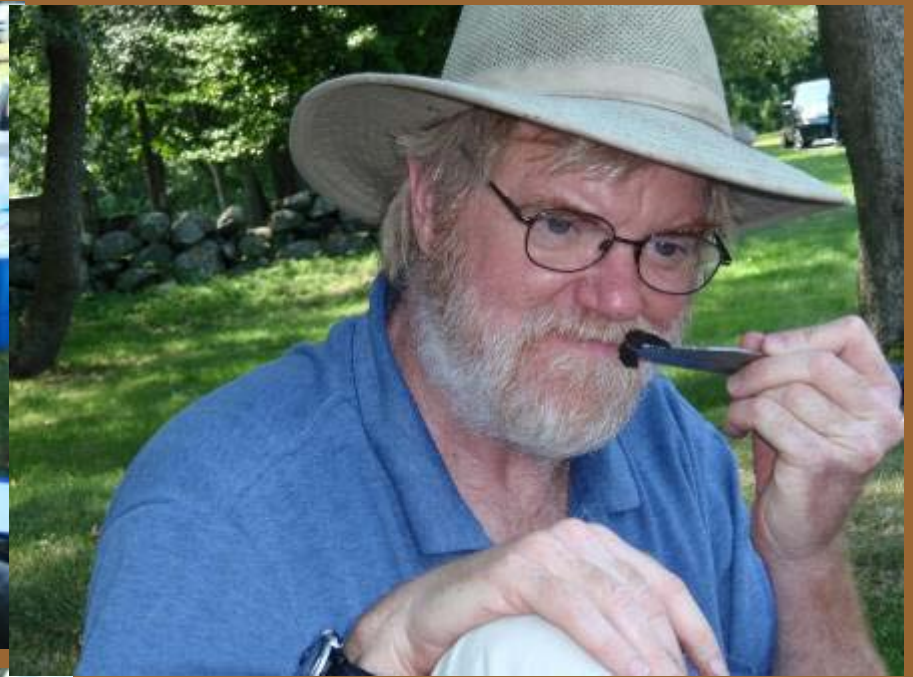
Opening the Core



Opening the Core







**The Whiff Test
for hydrogen sulfides**

**Also can use 3%
hydrogen peroxide to
note color change after
application**

Bulk Density Sampler



n-value test for predicting load support– step 1



n-value test – step 2



n-value test – step 3



Pedon Descriptions



Freshwater Subaqueous Investigations



Freshwater Subaqueous Investigations



Freshwater Subaqueous Soil



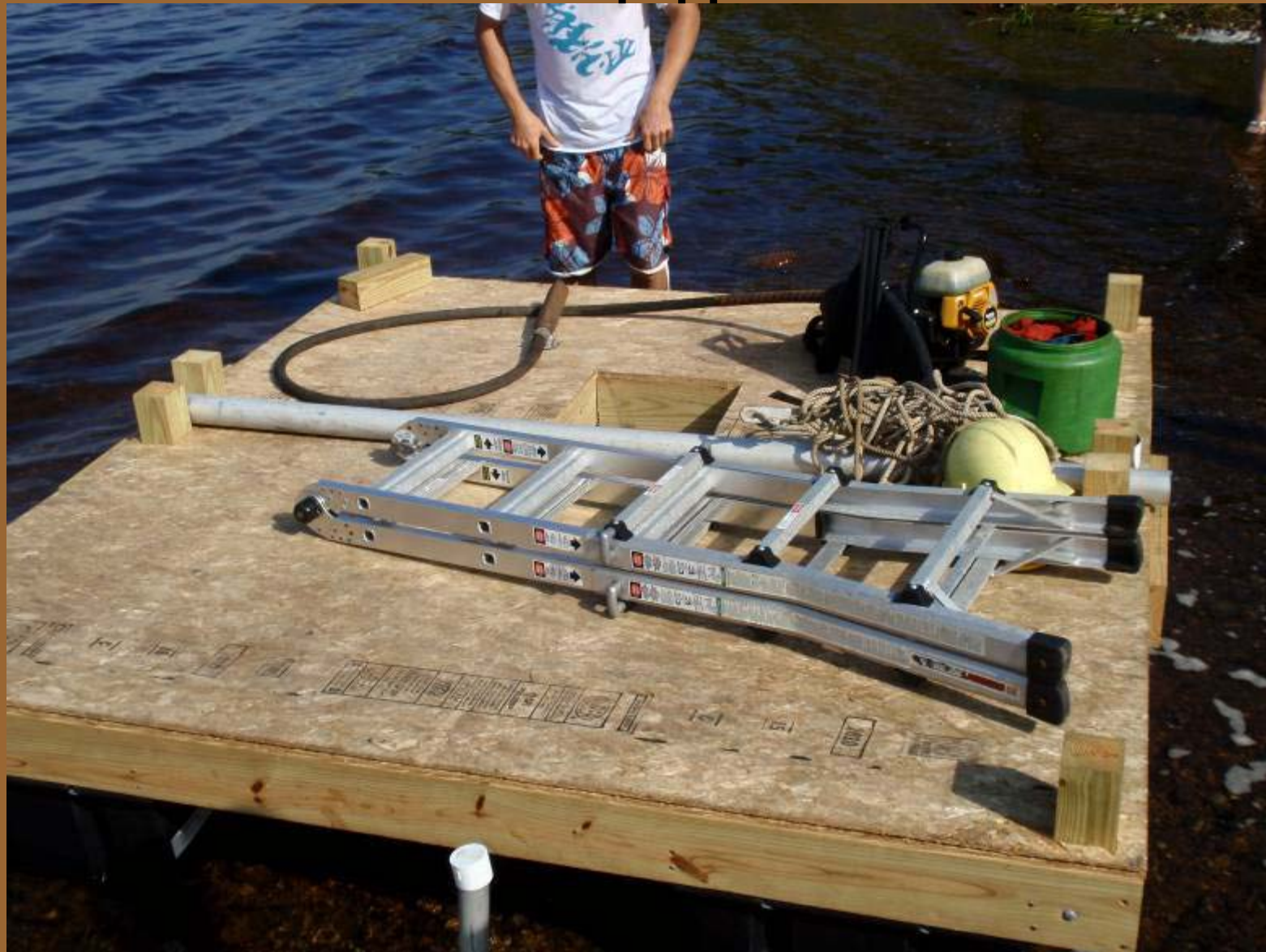
Freshwater Pontoon



Freshwater Pontoon



Freshwater Pontoon - equipped



Vibracore setup



Vibracore clamp & 3-in diameter aluminum pipe



End cap – top and bottom











Bathymetry



Bathymetry - survey equipment



Bathymetry - tide gauge



Bathymetry - tide gauge sleeve



Bathymetry boat









Vibracore pontoon







Tracking the location



Moon floor



Power winch for pulling cores



MacCauley peat auger (1 m length)





Vibracore clamp attachment is a two-person job



Vibracore clamp



Vibracore engine



Vibracore hose



Survey rod used to measure water depth outside & inside core to document compression of the sample



Fill core with water and cap before pulling it up



Capping the bottom of the core



Manually operated chain hoist





Cut excess pipe then recap and label



Oxidized surface



Marine worm pore



Map Spot Symbol (linear) – Shoreline protection structure



Map Spot Symbol – Rock outcrop



Interpretation – commercial clamming



Interpretation – recreational clamming



Interpretation – mooring suitability



Interpretation – piling installation suitability



Interpretation – water quality



Interpretation – wildlife habitat & recreational hunting



Interpretation – water quality & recreation



Interpretation – benthic habitat



Interpretation – subaqueous vegetation (SAV) production



Interpretation – fish observation decks



Interpretation – wave-height neutralizing structures





