

# New Technology in Vacuum Excavation Machinery

Jake Jeffords – Vermeer Corporation



# Industry Problem



Increase in hydro excavation sales – caused by utility strikes



Less readily available disposal sites, more time in traffic



Large Truck Vacuum Excavators are not road legal with weight

# Ideal Solution

- ✓ • Soft dig method with high performance
  - ✓ • Separation of soil and slurry
  - ✓ • Higher onboard water capacity
  - ✓ • Produce stackable material for transport/disposal
  - ✓ • Road legal system to and from jobsite
- ✓ More time on the jobsite in operation, and less time in traffic



# XR2 VACUUM EXCAVATOR



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# Product Application & Markets

- Utility Potholing
- Slot Trenching
- Stitch Boring
- Utility pole installation
- General Construction





# Spoils Reduction

## Standard 11-yard Truck

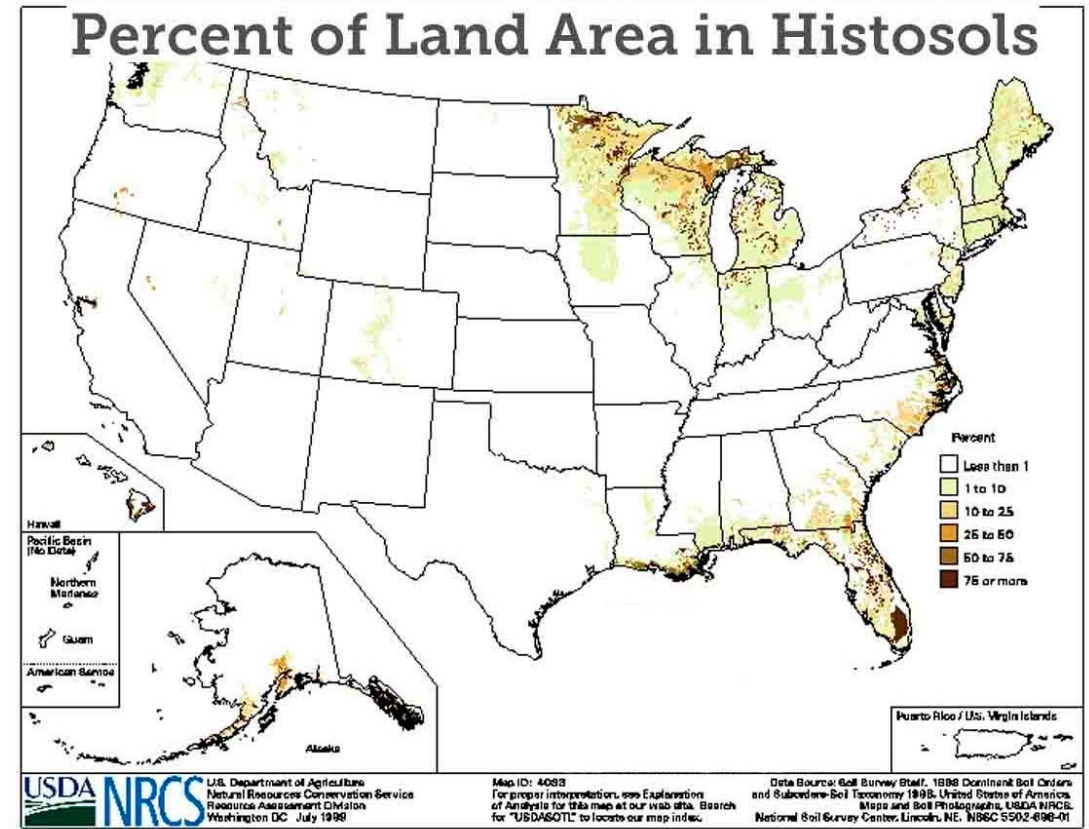
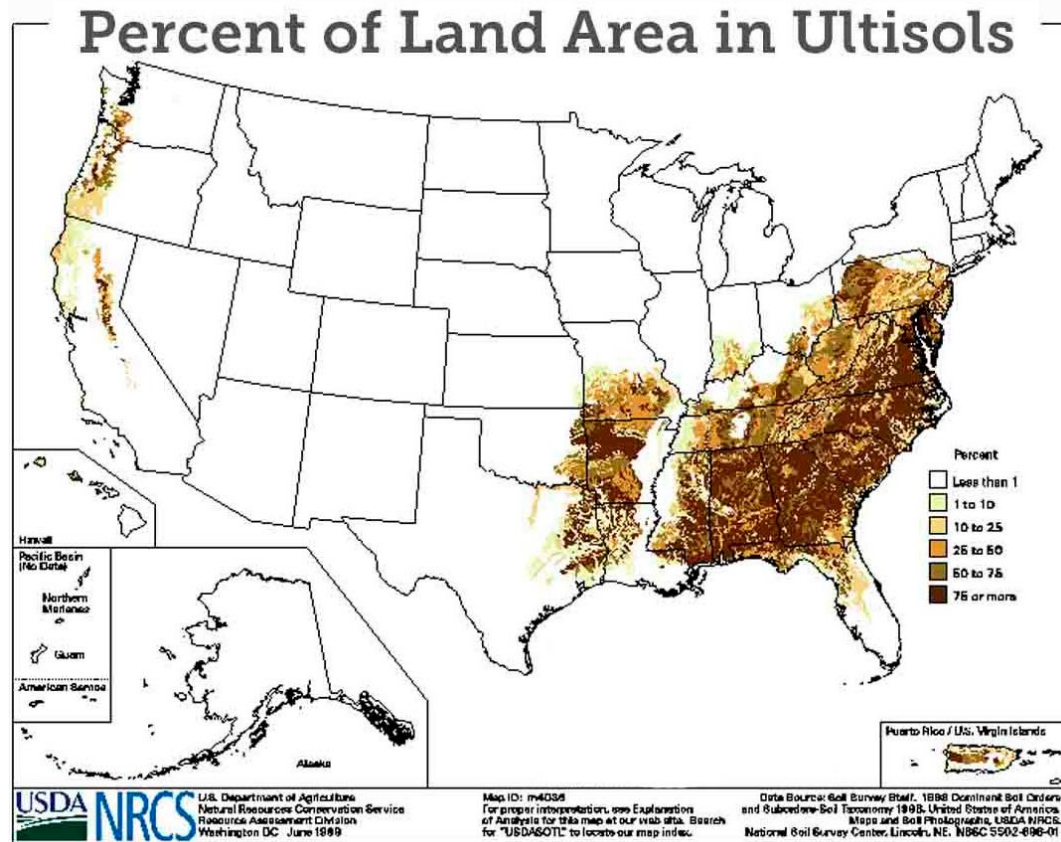
- Average 2-3 Dumps/Day
- Spoils disposed at approved Dump Site
- Standard 11-yard trucks can be overweight when fully loaded

## XR2

- 50% Spoils Reduction
- Dirt can be used as backfill immediately
- Spoils are pumpable mud, multiple disposal methods
  - Disposed at approved Dump Site
  - Pumped into separate tanker
  - Pumped into silt sacks

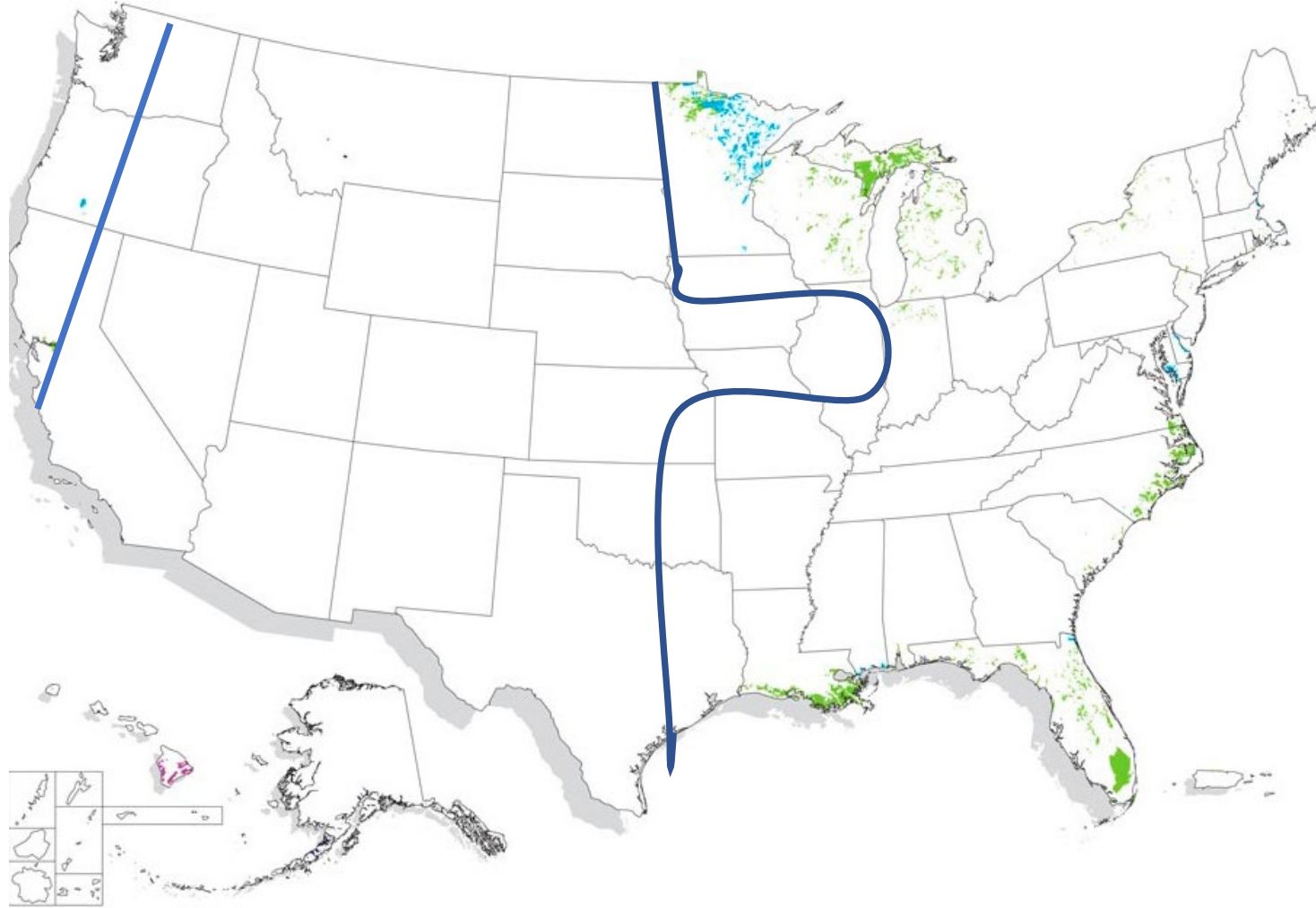


# Soil Condition Maps





# Soil Condition Maps – Ideal Performance





# Backfill Results

IOWA



ILLINOIS



GEORGIA



N. CAROLINA



CALIFORNIA





# Without & With Mixer





# Jake Jeffords

Director of Sales, Marketing & Global Accounts – Vermeer MV Solutions

Mobile – 864-386-9162

Email – [jjeffords@vermeer.com](mailto:jjeffords@vermeer.com)

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