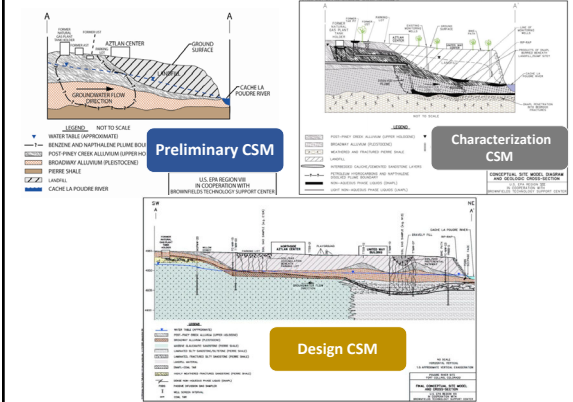


The Evolving Conceptual Site Model and Remedial Technology Selection

Examples from EPA Region 2 Superfund Sites

Kathryn Flynn
U.S. Environmental Protection Agency
Region 2 Technical Support Section

1

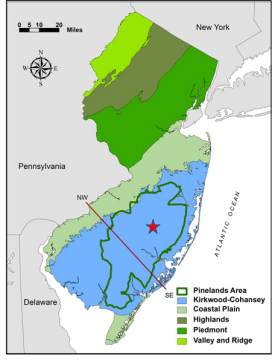


Effective Use of the Project Life Cycle Conceptual Site Model (EPA 2011)

2

Woodland Rt 72 Site

- NPL 1984
- Contaminants 1,2-DCA and BTEX
- Pinelands Preservation Area
- Kirkwood-Cohansey Aquifer

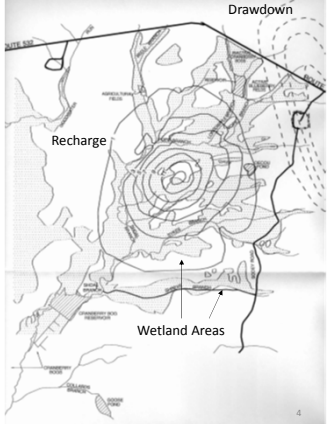


3

Woodland Rt 72 Site


1990 Remedy Pump and Treat

- ROD estimate was 1.2 Mgd for plume capture
- Groundwater model showed 10 Mgd required
- 1 – 12 feet of drawdown in plume
- 5 feet of recharge over 2 square miles
- Drastic consequences for ecology of Pinelands



4

Woodland Rt 72 Site



5

Woodland Rt 72 Site



1999 ROD Amendment
AS/SVE with Pump and Treat Contingency

6

