

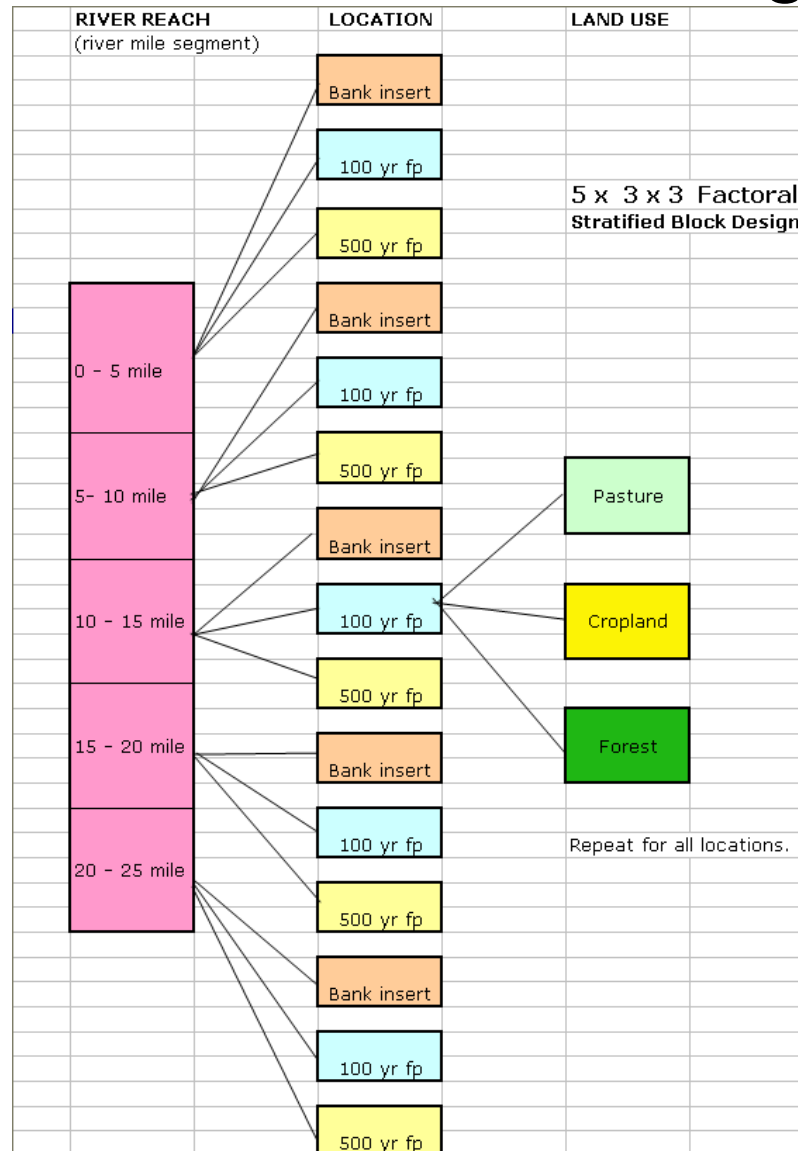
South River Science Team
Floodplain Soil Sampling Team

July 17, 2007

Objectives

- What is the distribution of Hg in floodplain soil.
- Delineate soil Hg that is a source to the river or is a sink from the river.
- How is the Hg changing over time?

5x3x3 Factorial Stratified Block Design



Work Plan Scope

- Factors
 - RRM 0 to +25
 - If segments are divided by bridge crossings it would help in determining loadings
 - Location
 - Inundation Frequency
 - <0.3 to 2 years
 - 2 to 5 years
 - >5 years or >62 years
 - Interesting locations
 - Hg Release Age Deposits (HgRAD)
 - Wetlands, Intermittent streams, River Bank, Riparian
 - Urban

Work Plan Scope

- Land Use (as presently mapped)
 - Pasture
 - Cropland
 - Forrest (mature)
 - Disturbed/undisturbed land

Questions

- Sampling depth?
- Increments or consolidate?
- Individual samples or consolidate?
- Little auger, big auger?
- Achieve samples (create a library)
- How many actual samples are needed in final factor? (Bill says 30)
- What to test for after sample is collected?