

Evolution of the Conceptual Model for the Grasse River PCB Site Cont'd.

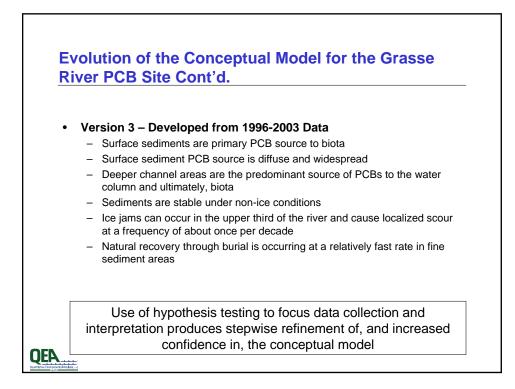
• 1998-2002 Efforts

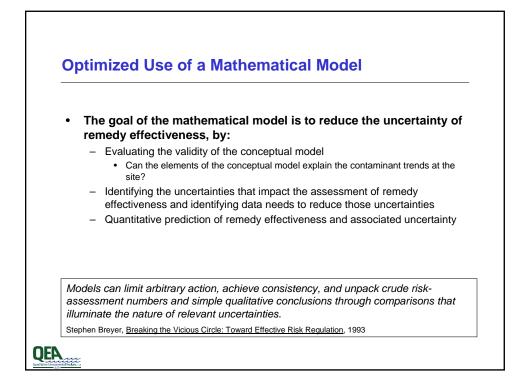
- Routine bi-weekly water column monitoring April-November 1998-2004
- High flow event monitoring 1998 and 2002
- Time-integrated water column monitoring (SPMDs) 1998-99
- Sediment sampling in 2000; 2001
- Capping Pilot Study to confirm stability of sediments and ability to install cap

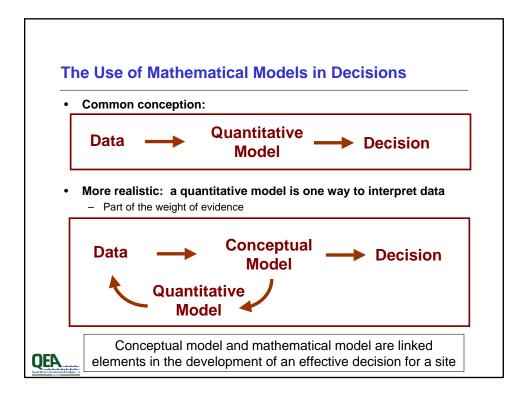
Results

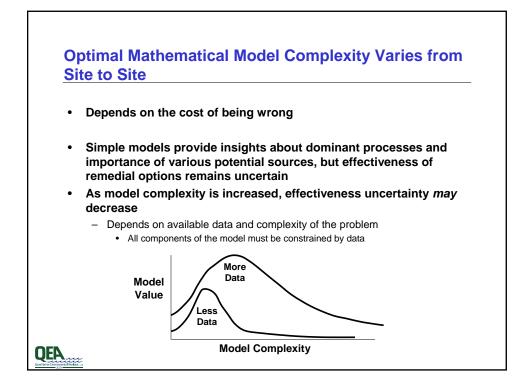
- Confirmed existing elements of model, but identified missing element: ice jam induced scour
- 2003 Efforts
 - Extensive investigation of ice jam processes and frequency of occurrence
 - Identification of sediment vulnerable to scour during ice jams

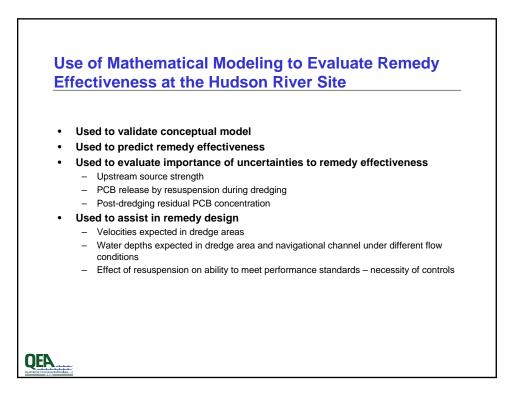
QEA

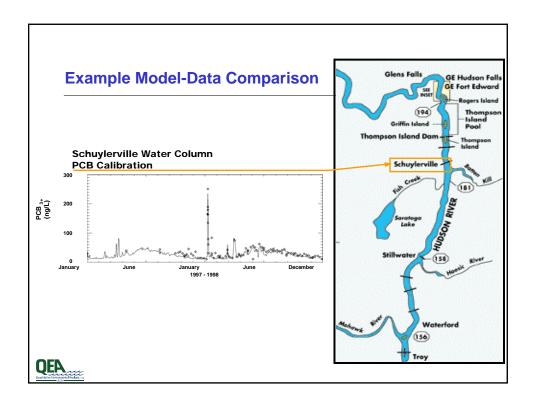


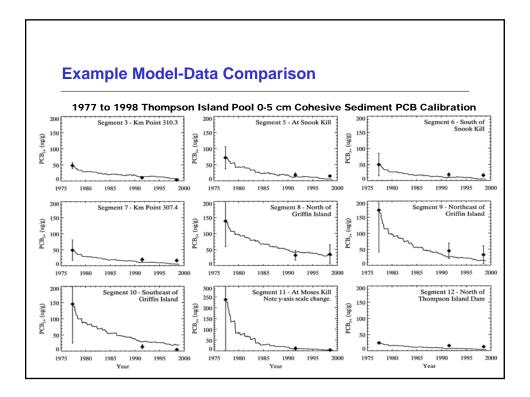












Conclusions

- Models form a central element of site evaluation
- Conceptual models explain the factors affecting exposure and risk
- Mathematical models provide a means to test the conceptual model, guide data collection and predict how the system will respond to proposed remediation
- Mathematical models can assist in remedy design
- Optimized use of models requires strict adherence to the scientific method and explicit recognition and accounting of uncertainty

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