KGS Annual Meeting
Emerging Environmental Issues

Karen E. Thompson, P.G.
Smith Management Group
karent@smithmanage.com
Emerging Issues – Contaminants

* Water Soluble Pharmaceuticals
* Updated Exposure Data
* Updated Risk Evaluations
Using Site Conceptual Models
  * More scientific based investigations

Engaging all “players” in process
  * Property Owner
  * Client
  * Regulators
  * Community

Favoring in-situ remediation vs. more traditional approaches of excavation or pump and treat
Increasing the use of more traditional geological investigative techniques:

- Geophysical surveys
- Creation of cross-sections
- Sample collection of parameters beyond the contaminate to determine water chemistry
Surface Water Quality

- TMDL development
- Water Lab Certifications
- Storm Water
- Watershed Protection Policies
Agricultural Uses - Pivot Point Wells
City water supplies
Industrial water supplies

WHO gets the water first during droughts?
How is the STATE monitoring withdrawals?
HOW IS KGS ANSWERING THE CALL?

* Databases
* Mapping
* New Research
* Participation in public meetings, comment periods, and committees to ensure the information provided by KGS is being properly used.
WHAT NEEDS TO BE DONE?

* Collection of basic data in much of the state regarding soil, water, and bedrock characteristics that impact environmental remediation, water resource development and protection, and geotechnical.

* Need for development and evaluation of newer GIS and hydrologic data modeling techniques that can help address some of the tougher issues.