



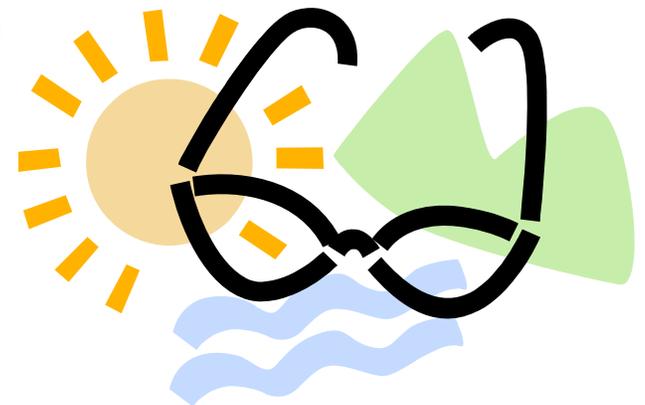
What I do over my summer vacation...

as an EHSB intern

an informal presentation from

S. Xiah Kragie

July 22, 2008



Major Summer Activities



- Assist in outbreak write-ups

- **Develop a comprehensive and user-friendly EndNote database of water literature**



- Support ongoing activities regarding Water Safety Plans

- Attempt to understand the protocol of the US Public Health Commission Corps



Internal “Water Library”

Databases

- PubMed
- MEDLINE
- EMBASE
- EconLit
- AGRIS
- WHO Databases
- *Web of Science*
- *UNESCO*
- *US AID*
- *World Bank*

Major search terms

(with a focus on developing settings)

- Water Safety Plan
- Sustainability
- Appropriate or Alternative Technology
- Workforce or Training or Personnel etc..
- Monitoring, Evaluation
- System effectiveness
- Cost recovery or Finance mechanism
- Health Impacts
- Risk Management

See EndNote for demonstration

Example: Source Risks



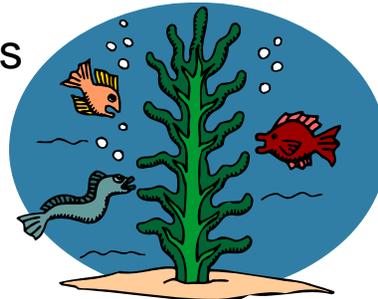
Climate /
Weather [5]

Urbanization [1]

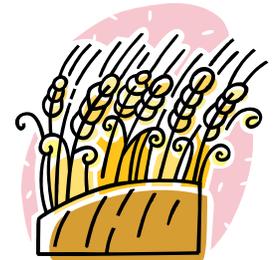


Mining [3]

Algal
blooms
[4]



Agriculture [2]



Pesticides [6]

Surface water

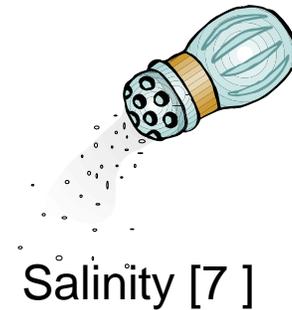
Groundwater



Recharge
[9]



Nitrate
Transport [8]



Salinity [7]

Example: Source Risks

1. Geriesh, M.H., K.-D. Balke, and A.E. El-Rayes, *Problems of drinking water treatment along Ismailia Canal Province, Egypt*. Journal of Zhejiang University, 2008. Science. B. 9(3): p. 232-42.
2. Avery, L.M., et al., *Survival of Escherichia coli O157:H7 in waters from lakes, rivers, puddles and animal-drinking troughs*. Science of the Total Environment, 2008. 389(2-3): p. 378-85.
3. Chen, A., et al., *Well water contaminated by acidic mine water from the Dabaoshan Mine, south China: chemistry and toxicity*. Chemosphere, 2007. 70(2): p. 248-55.
4. Rizak, S. and S.E. Hrudey, *Drinking-water safety - Challenges for community-managed systems*. Journal of Water and Health, 2008. 6(SUPPL. 1): p. 33-41.
5. Hudnell, H.K. and Q. Dortch, *A synopsis of research needs identified at the Interagency, International Symposium on Cyanobacterial Harmful Algal Blooms (ISOC-HAB)*.
6. Chen, Y., L. Zhu, and R. Zhou, *Characterization and distribution of polycyclic aromatic hydrocarbon in surface water and sediment from Qiantang River, China*. Journal of Hazardous Materials, 2007. 141(1): p. 148-55.
7. Subba Rao, N., *Factors controlling the salinity in groundwater in parts of Guntur district, Andhra Pradesh, India*. Environmental Monitoring & Assessment, 2008. 138(1-3): p. 327-41.
8. Obeidat, M.M., et al., *Analysis and evaluation of nitrate levels in groundwater at Al-Hashimiya area, Jordan*. Environmental Monitoring & Assessment, 2007. 135(1-3): p. 475-86.
9. Yadav, S., R. Singhvi, and B.K. Sharma, *Recharging of borewells and analysis of harvested rooftop rainwater in houses of Udaipur city*. Journal of Environmental Science & Engineering, 2007. 49(3): p. 225-8.



Lessons Learning



- Practice of blending lessons from public health and environmental engineering
- Complexity and value of communicating through figures and logic models
- Challenges of focused searching for future uses
- Appreciation of librarians and keywords
- Existence and proper placement of a “collar device”
- 5,000+ interesting perspectives on water issues