

WE BRING IT ALL TOGETHER



# Government Funding of Environmental Projects: Investment or Charity

**Richard D. Kuchenrither, Ph.D., P.E.**  
**Senior Vice President**



ENERGY WATER INFORMATION GOVERNMENT

**October 27, 2005**



# This Is a Hard-Working River!

1. Is our Investment in Water Quality Worth it?
2. A Perspective on Human Health Information and the Environment



# Clean Water: The Key to Economic Revitalization

- Erwin Odeal, P.E.
- George Bayley, P.E.

Clean Water Act

\$80 billion



## Baltimore Inner Harbor

- Capital \$4 billion
- Number of Jobs 35,000
- Annual Income \$1 billion
- Number of Tourists 8,000
- Annual Revenue \$800 million
- Increased Property Taxes \$38 million



## Cleveland

- Capital \$1.4 billion
- New Jobs 3,000
- Annual Income \$100 million
- Number of Tourists 9,500
- Annual Revenues \$1.0 billion



# Epidemiology

- The Study of the Distribution and Determinants of Diseases and Injuries in Human Populations
- Incidence = #New Cases/Population @ Risk
- Relative Risk:

$$\frac{\text{Incidence in Exposed Population}}{\text{Incidence in Unexposed Population}}$$



# Relative Risks for Lung Cancer

• Non-Smokers	1
• <10 cpd	6
• 10-20	10
• 21-39	18
• >40	>30



# CONCLUSIONS

- Water quality is a great investment
- Just because you can measure it, does mean it is harmful