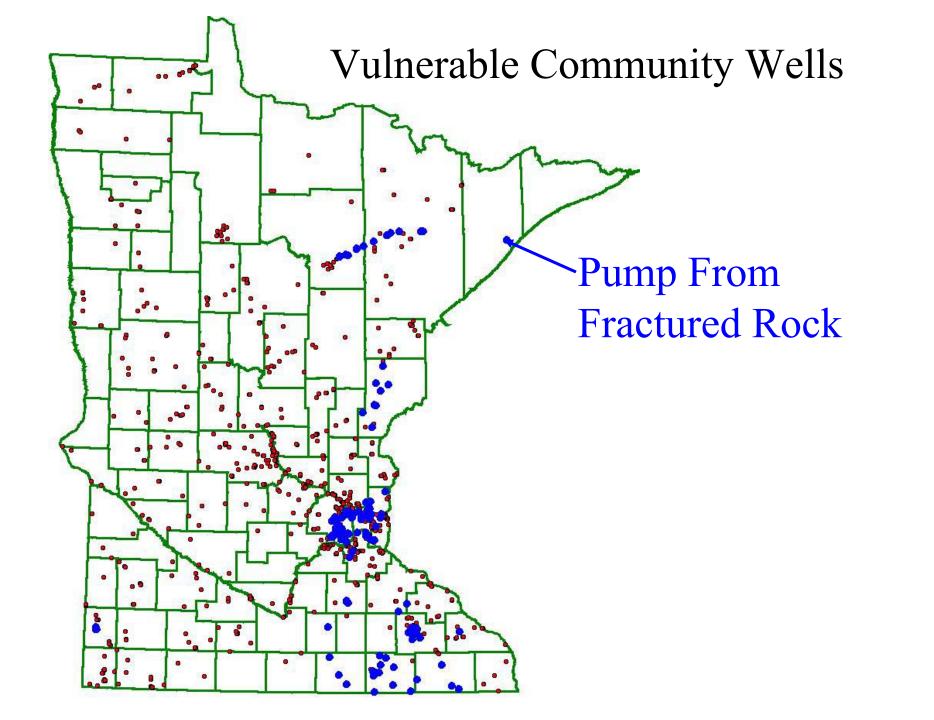
Source Water Protection in Secondary Permeability Environments

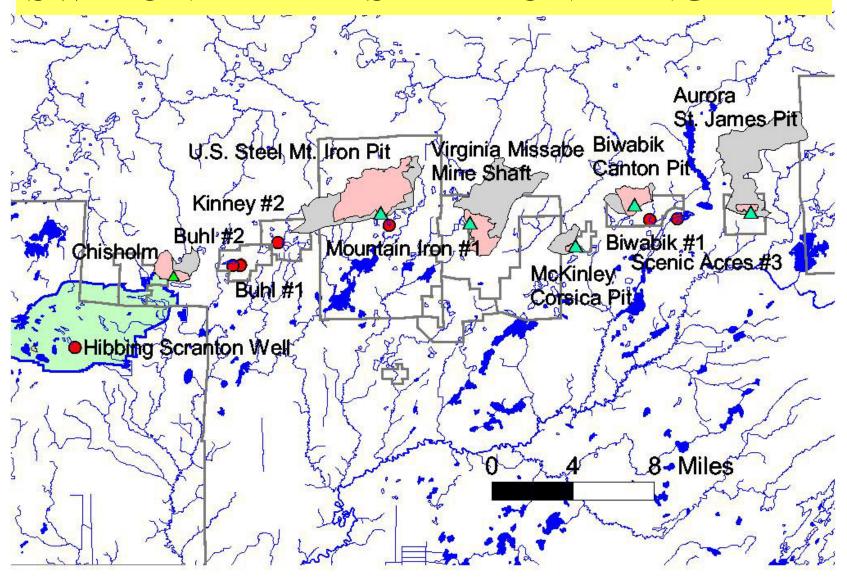
MGWA Meeting April 19, 2007
Bruce M. Olsen
Minnesota Department of Health

MDH Roles in Drinking Water Protection

- Principle Agency Responsible for Public Health Protection
- Primacy Agency for Federal Safe Drinking Water Act
- MDH Administers State Regulations Affecting Drinking Water Supplies
- Member Agency of the EQB



SWP ON THE MESABI IRON RANGE



Challenges

 The Source Water Protection Area is Difficult to Designate and May Have a Large Geographic Extent

 Public Water Suppliers Have Limited or No Jurisdictional Authority Beyond Their Corporate Limits

Challenges

 Managing Potential Contamination Sources Should Address the Impacts of Fracture Systems

 Integrate Surface Water and Ground Water Protection Programs

Meeting the Challenges

 Develop Better Coordination Between Surface Water and Ground Water Protection Programs

• Identify the Water Resource Evaluation and Contamination Source Management Tools That Relate To SWP In Fractured Rock Terrains.

Federal/State/Local Coordination

Federal Spending and Policies (4 to 10 Years)

• State Spending and Policies (2 to 6 Years)

• Local Spending and Policies (1 to 4 Years)

Focus on Federal Programs

Safe Drinking Water Act

Clean Water Act

• Farm Bill, Energy Bill, Source Water Coalition, etc.

Safe Drinking Water Act (Title XIV of the Public Health Services Act)

Addresses Public Water Supplies Only

• Requires that States Have WHP but Not Surface Intake Protection Programs

No National Standards For Well
 Construction and Ground Water Protection

Safe Drinking Water Act

- National Drinking Water Standards (MCLs)
- PWSS Program
- Source Water Protection
- Underground Injection Control
- Sole Source Aquifer Program

Clean Water Act

(Federal Water Pollution Control Act)

• Primary Focus Is On Surface Water

• Limited Authority to Protect Ground Water

Clean Water Act

- Water Quality Standards/Designated Use
- On-site/Decentralized Wastewater
- Storm Water Discharge Program
- Animal Feeding Operations
- Biosolids Program
- Non-point Source Pollution
- Total Daily Maximum Loads

Integrating the CWA and SDWA

• $CS(WA)^2$

Priority for EPA

 Recognize the Interconnection Between Surface Water and Ground Water

What Has Been Done?

- Address Public Wells in Feedlot Regulations
- Standards for On-site Systems in WHPAs and for Siting New Systems to Protect Ground Water
- Address Public Wells in Storm Water Permitting

Things to Do

- Integrate WHP Goals With Basin Planning
- Identify Portions of WHPAs Where Nonpoint Source Management BMPS Support WHP Efforts
- Identify Where the TMDL Program Can Be Applied to Ground Water
- Expand CWA/SDWA Integration To Farm Bill Conservation Programs

QUESTIONS



