

# LAKE DELHI TASK FORCE- ENVIRONMENTAL SUB-COMMITTEE



IOWA DEPARTMENT OF NATURAL RESOURCES

- Structural Assessment
- Wastewater
- Floodplain
- Water Supply (Public & Private)
- Stream Bank Stabilization
- Aquatic Life
- Public Safety & Recreation







- Understanding structural integrity is important
- Formal process for removal

# STRUCTURAL ASSESSMENT



- #1 Priority on Iowa's Unsewered Communities List
- Shared responsibility with County Health Department
- Inadequate septic systems have a direct impact on drinking water



Full septic system



Septic system overflow

# WASTEWATER

## Private Drinking Water Wells

- Historically 25% of local wells are found to be unsafe
- Of recent samples collected, nearly 70% have Coliform bacteria contamination
- Installation or rehabilitation of wells



new wellhead

## Public Drinking Water Systems

- Is an option to help community with water contamination

# WATER SUPPLY



## When a permit is needed:

- Buildings in 100 yr. floodplain with more than 50% damage
- Work along river bank
- Work on a stream bank protective device



# FLOOD PLAIN



- Biological and habitat monitoring



**AQUATIC HABITAT**



- DNR recommends no recreational use at this time



**PUBLIC SAFETY/RECREATION**





# STREAM CHANNEL CONDITIONS



QUESTIONS?

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## Dam Classification: High Hazard

### Dam Permit Requirements

- Specified freeboard design flood is the **probable maximum flood**
- Must have the capacity to pass a **100 year flood** by the principal spillway without need for operation of an emergency spillway
- Soils and foundation investigation
- Investigation of anticipated sedimentation rates and their impact on the life/usefulness of the impoundment
- A written operating plan
- A gated low level outlet
- Dam breach analysis must be completed
- Fish passage requirements must be implemented
- Development of a comprehensive Emergency Action Plan

# DAM PERMITTING AND REGULATIONS