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

WASTEWATER

Full septic system  Septic system overflow
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

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
- Biological and habitat monitoring

AQUATIC HABITAT
DNR recommends no recreational use at this time
STREAM CHANNEL CONDITIONS
QUESTIONS?
delhienv@dnr.iowa.gov
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**