# Shoreland Zoning How Does It Impact Me?

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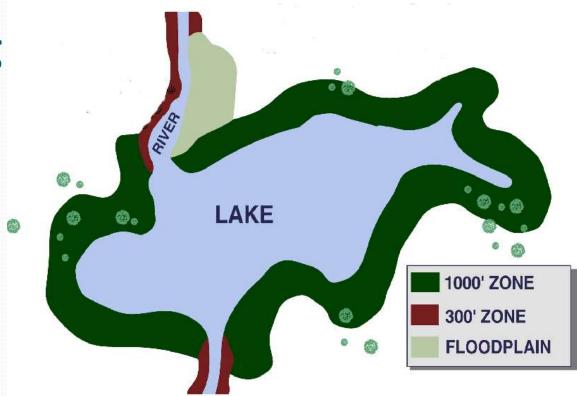
The Red Cedar: Land, Water, and People Coming Together Conference, March 14, 2013

### **Outline for this session**

- What is shoreland zoning?
- 2) Why care about shoreland zoning?
- 3) What are the primary standards in the Dunn County Shoreland Wetland Ordinance, and how they may impact you?

### **Shoreland Zoning**

What is it?



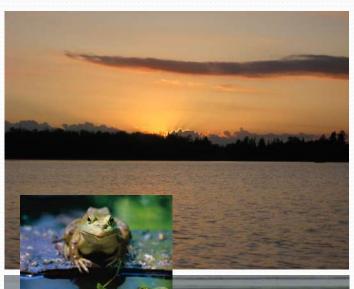
- Zoning for shoreland areas
- June 1966, Water Resources Act passed (now called NR 115)
   rule revised in 2010
- Applies statewide to all unincorporated areas
- Applies to areas annexed after May 7, 1982

### Why Care About Shoreland Zoning?

- Goal of shoreland zoning is to limit direct <u>and</u> cumulative impacts of shoreland development on:
  - Water quality
  - Near-shore aquatic, wetland, and upland wildlife habitat
  - Natural scenic beauty

### Why Care About Shoreland Zoning?

Enjoying healthy lakes & rivers: Part of who we are in WI













## Why Care About Shoreland Zoning? Lake Quality & Economics: Is there a connection?

 "More polluted lakes have less valuable property than do cleaner lakes."

E.L. David, Water Resources Research, 1968

 A study of over 1200 waterfront properties in Minnesota found when water clarity changed by 3 feet changes in property prices for these lakes are in the magnitude of tens of thousands to millions of dollars.

### **Higher Property Values**

Human Amenities

Diversity of Bugs, Fish, Wildlife

Diversity & Variety of Habitat

**Water Quality** 

**NR 115 Shoreland Zoning Standards** 

### Why were Shoreland Zoning Rules Revised?



### Why were Shoreland Zoning Rules Revised?

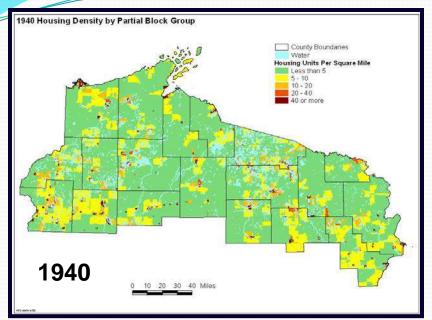


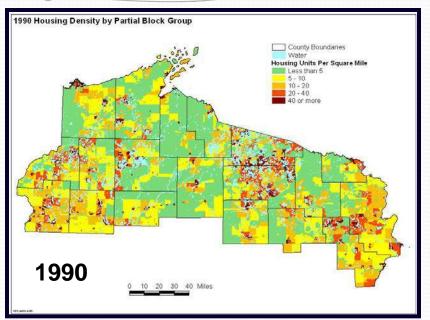


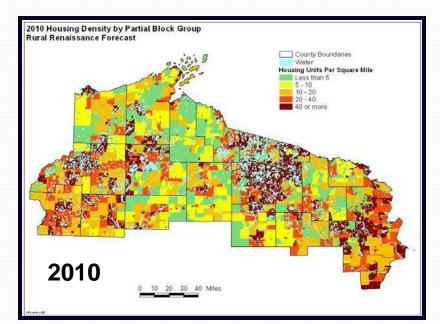




### Why were Shoreland Zoning Rules Revised?

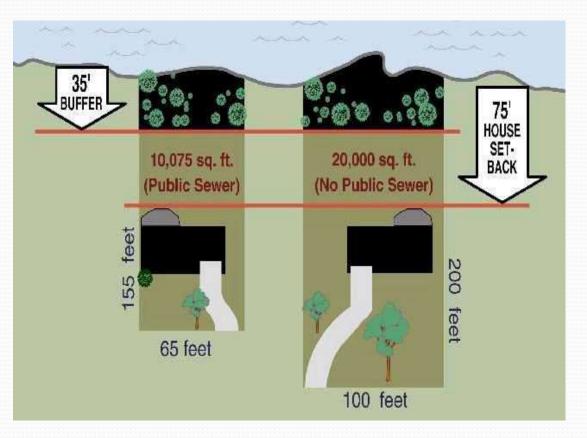






# **Shoreland Zoning**Long-Standing Standards

- Lot sizes
- Shoreland setbacks, including averaged setbacks
- Shoreland buffer sizes
- Standards for land disturbing activities
- Shoreland Wetland standards
- Structure exemptions

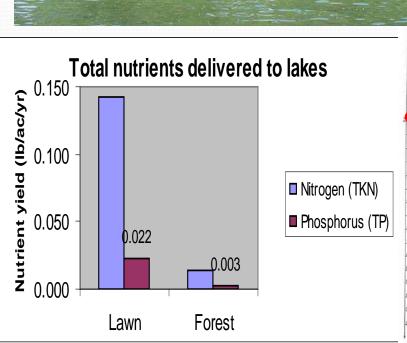


# Shoreland Zoning Updated and New Standards

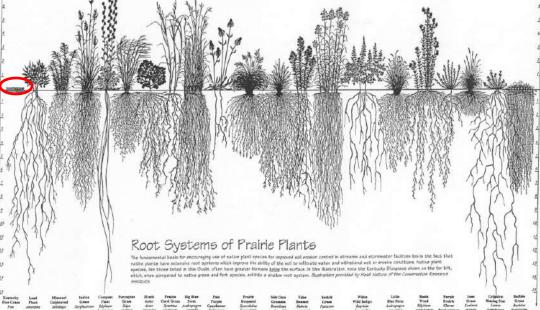
- Shoreline Buffers greater clarity and specification
- Impervious Surface Limits
- Nonconforming Principal Structures increased flexibility and options
- Shoreland Mitigation

### **Shoreline Buffers**



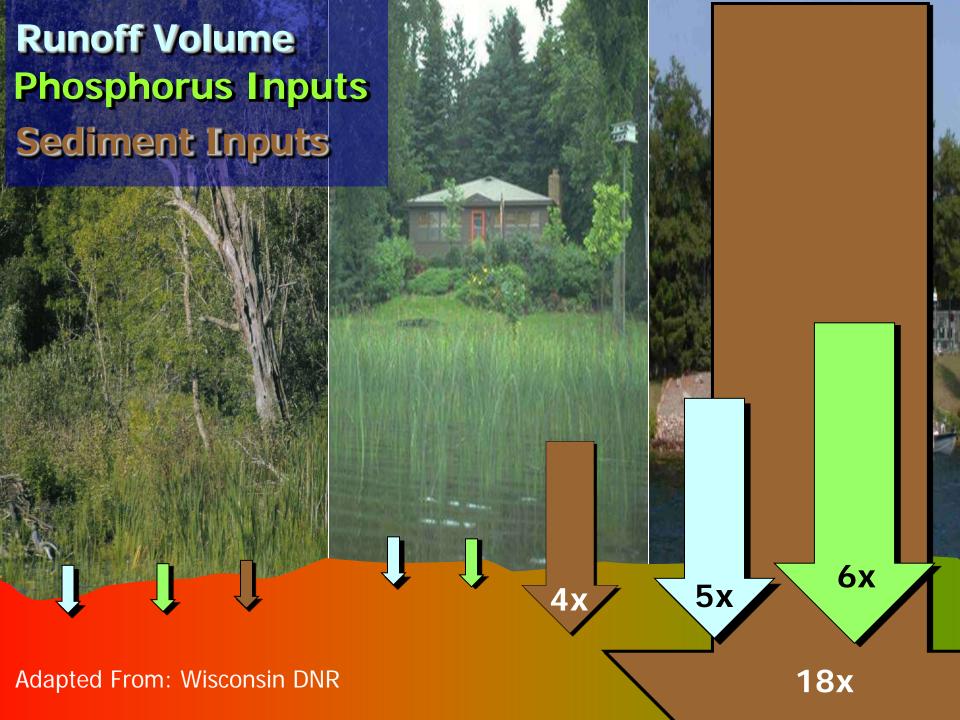






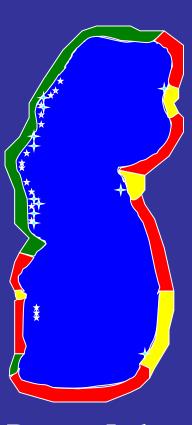
### **Shoreline Buffers**



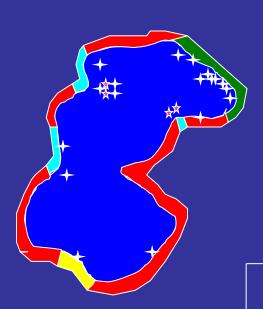


## Largemouth bass & black crappie nests

Jeffrey Reed, MN DNR, 2001



Bergen Lake



Cowdry Lake



Crooked Lake



Highly Developed Shoreline

Developed Shoreline with Dwelling

Developed Shoreline w/out Dwelling

**Undeveloped Shoreline** 



Represents 5 Black Crappie Nests



Represents 1 Largemouth Bass Nest

## **Shoreland Zoning Impervious Surface Standards**

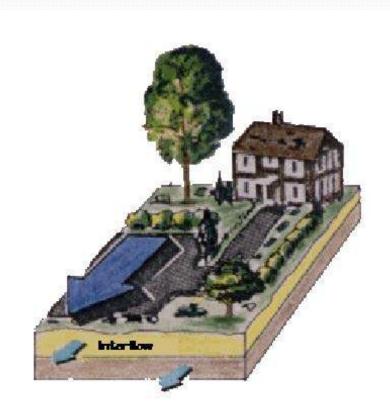
- What is an impervious surface?
  - An area that releases <u>all or a majority</u> of the precipitation that falls on it.
  - Includes rooftops, sidewalks, driveways, parking lots, etc.

- What are the Water Quality Impacts of Impervious Surfaces?
  - Erosion
  - More pollutants entering the water
  - Increased algae growth
  - Fewer fish, insect, and other aquatic species

## Impervious Surfaces and Runoff



Less impervious surface
Less runoff



More impervious surface

More runoff

## Increasing impervious surface in the watershed Decreasing number of fish & fish species

Fish found in streams when impervious surface in the watershed was:

Less than 8%

8 - 12%

Greater than 12%

Iowa darter
Black crappie
Channel catfish
Yellow perch
Rock bass
Hornyhead chub
Sand shiner
Southern redbelly dace

Golden shiner
Northern pike
Largemouth bass
Bluntnose minnow
Johnny darter
Common shiner

Creek chub
Fathead minnow
Green sunfish
White sucker
Brook stickleback

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Creek chub
Fathead minnow
Green sunfish
White sucker
Brook stickleback

2008 study of 164 WI lakes found the same trend

Creek chub
Fathead minnow
Green sunfish
White sucker
Brook stickleback

Wang et al. 2000

## **Shoreland Zoning Nonconforming Principal Structures**

Nonconforming Structure = pre-existing structure that does not meet current standards

NR 115 now provides numerous options, which should reduce the number of variances needed

The Legislature eliminated the use of a 50% increase in valuation (i.e. 50% Rule) in 2012

### **Shoreland Zoning - Shoreland Mitigation**

- Definition
  - "balancing measures that are designed, implemented and function to restore <u>natural functions</u> and values that are otherwise lost through development and human activities"
  - Natural Functions = Water quality, near-shore aquatic habitat, upland wildlife habitat and natural scenic beauty
- Mitigation is triggered by:
  - Increasing impervious surfaces over 15%
  - Vertical expansion of nonconforming structures
  - Replacement or Relocation of nonconforming structures



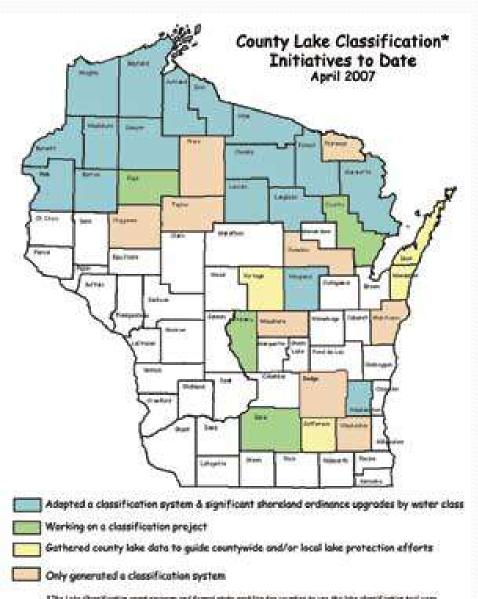
### Why Care About Shoreland Zoning?

- Prevent and control water pollution
- Protect habitat for fish and aquatic life
- Reserve shore cover and natural beauty
- Control land use and natural beauty
- Maintain safe and healthful conditions



# **Shoreland Zoning Counties going beyond 1968 law**

- Counties recognized inadequacies
- Adopted higher standards
- "New" ideas
  - 16 counties have impervious surface stds.
  - 27 counties have shoreland mitigation



national by engineery changes (in Ch. 28088). Was State) placed by the Legislature and dis

### Ordinance Timeframe

July – October Research, drafting and preparation of

1st draft to PR&D Committee

2011 January Continued drafting and research

2010

February Presentation by DNR staff regarding

shoreland preservation

March – May Continued research and drafting

June 1 Public educational meeting for

shoreland and floodplain ordinances

June-August Continued research and drafting

August 23, 2011

1st public hearing for adoption of shoreland ordinance and amendments to floodplain ordinance

Returned to PR&D Committee for further research and drafting

2012

January – April

Continued research and drafting

April 10

2nd public hearing for adoption of

shoreland ordinance

May 16

Presentation to County Board for

approval

### **Shoreland Zoning**

- 14.6.0 Building Setbacks
- 14.7.0 Vegetation
- 14.9.0 Impervious Surface Standards
- 14.11.0 Nonconforming Uses and Structures
- 14.12.0 Mitigation

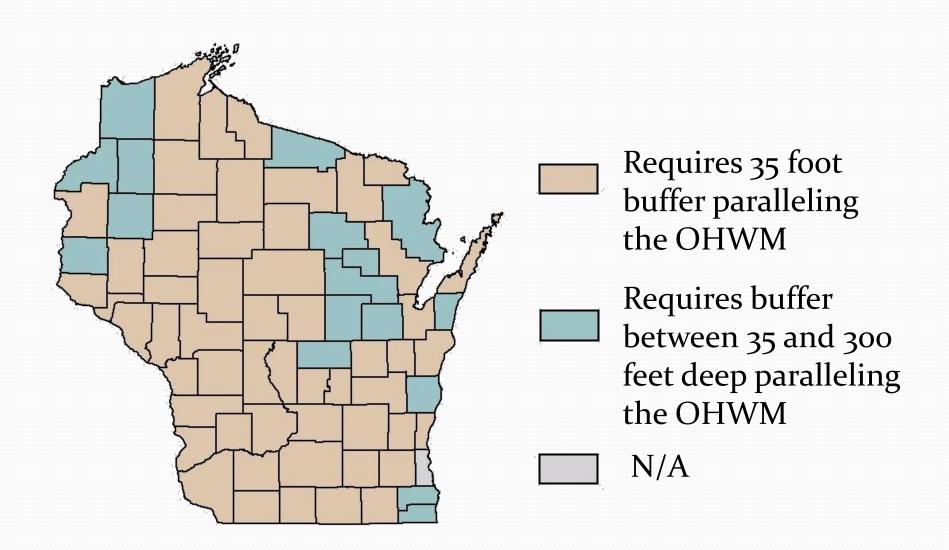
### **Shoreland Zoning**

14.6.0 Building Setbacks

1968 Law allowed reduced setback from required 75' setback using existing principal structures within 200' of requesting lot

<u>2012 Law</u> allows reduced setback from required 75' setback using existing principal structures within <u>250'</u> of requesting lot

### **Shoreline Buffer Standards**



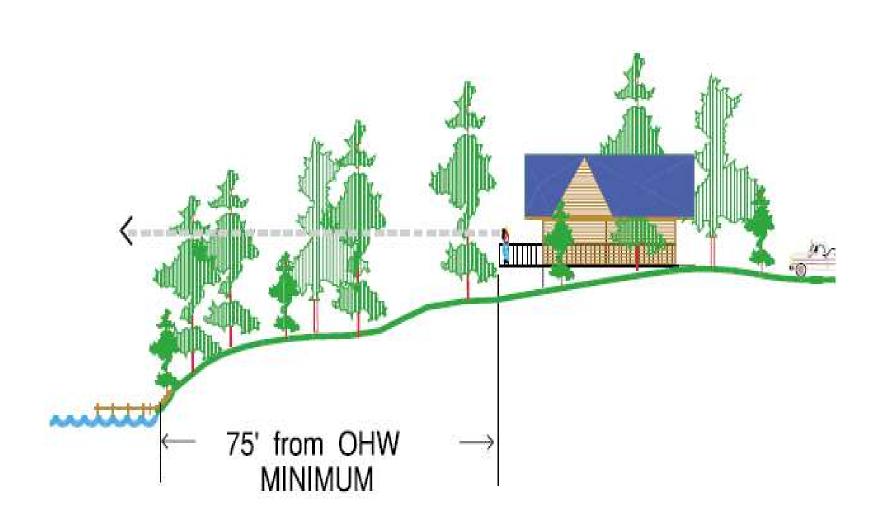
### **Shoreland Zoning Changes - Shoreline Buffers**

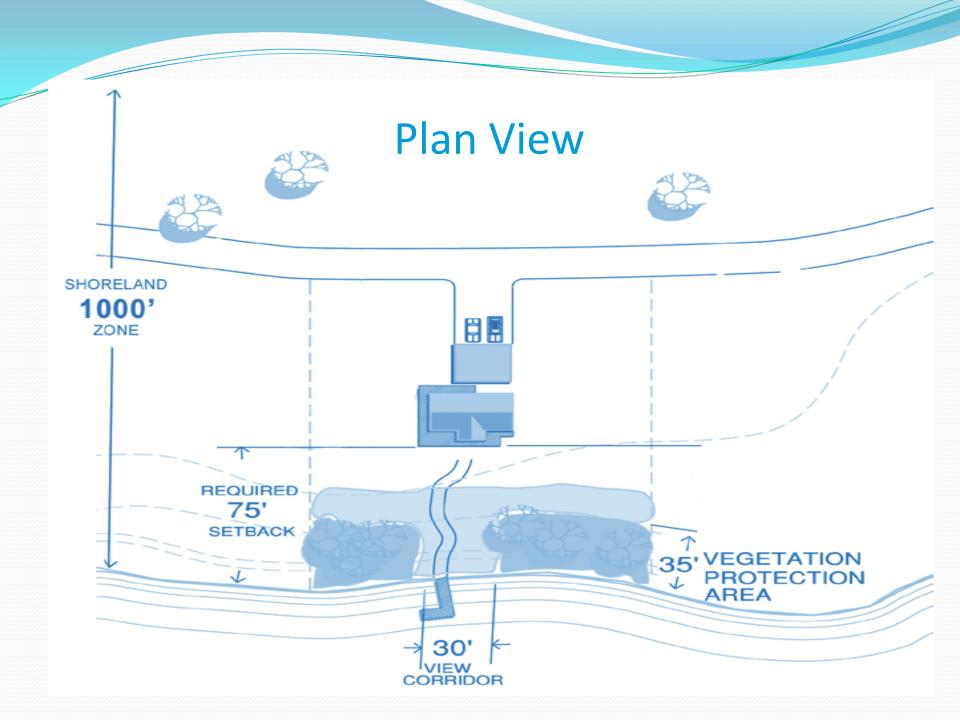
 More clarity and specification than previously



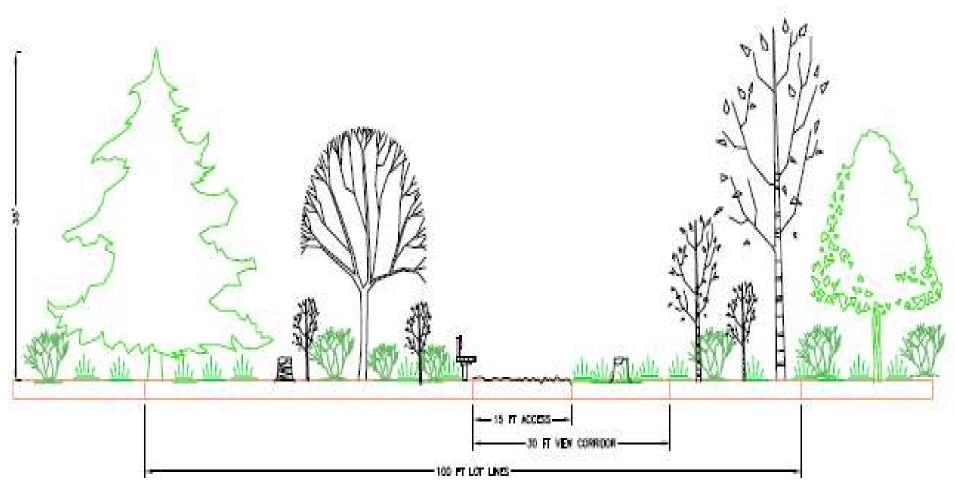
- First 35 feet, no vegetation removal except
  - Access and viewing corridors
  - Shoreline restoration activities & invasive species control
  - Dead, dying or diseased when replaced with native vegetation
  - Sound forestry practices on larger tracts of land
  - Where mowing currently occurs counties may allow "keep what you have"
- Other types of removal allowed with a permit.
  - Vegetation removed with a permit must be replaced.

### What is the OHWM?





### Elevation of Typical 100' Lot



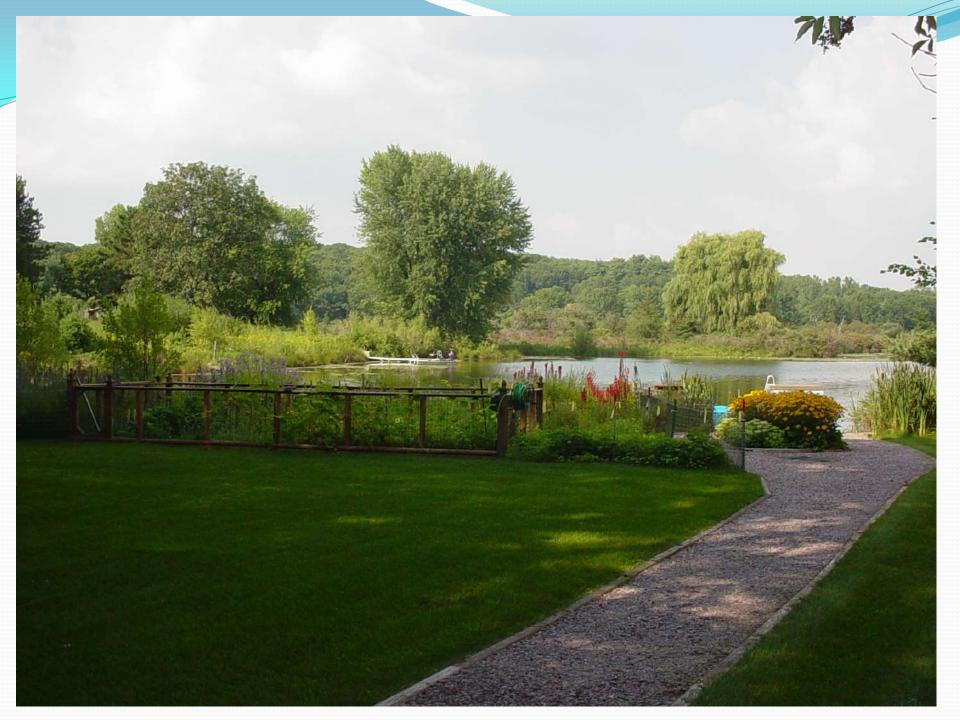
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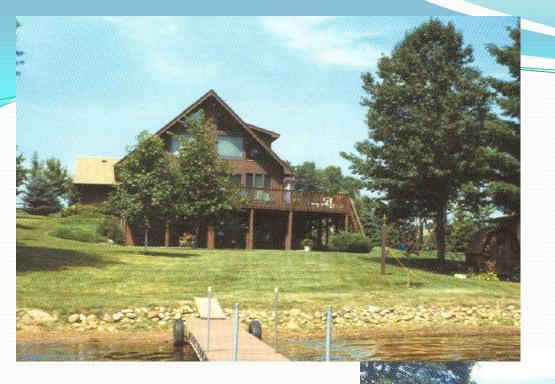
- There has been general support for the value of buffer strips and the flexibility of their applications
- Current draft ordinance places greater emphasis on buffer strips in all areas of shoreland activity from agricultural practices to resorts and residential development
- Many farmers have voluntarily initiated effective conservation practices on their shoreland agricultural lands
- Many residential lot owners have already installed buffer areas of native vegetation and creative landscaping
- The challenge lies in making this the norm and not the exception

## **Cropland Buffers**









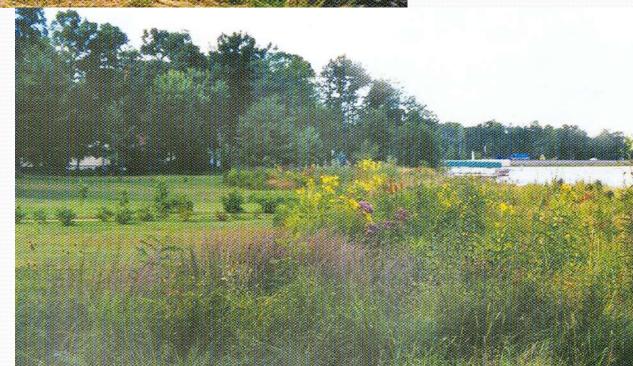
Before





Before







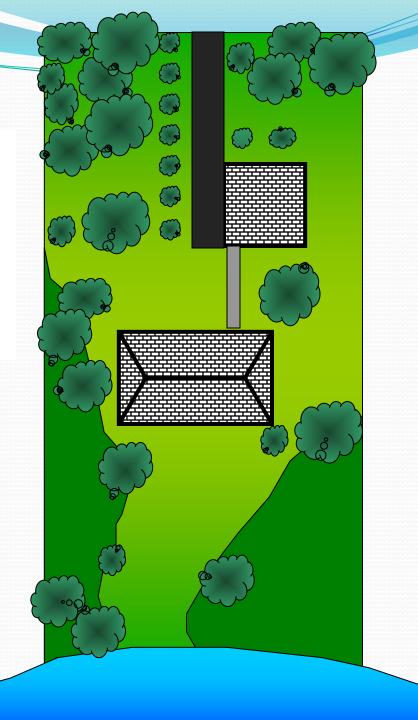
## **Shoreland Zoning Changes Impervious Surface Standards**

- What are the geographical boundaries of this standard?
  - Applies to property within 300-feet of any waterway
- What is the standard?
  - Keep what you have in terms of existing impervious surfaces
  - Up to 15% impervious no permit is needed
  - Between 15% 30% allowed with a permit and mitigation
  - Variance required for greater than 30% impervious surface

## Impervious Surface Example

15% of 20,000 sq. ft. lot

1500 sq. ft. house footprint 740 sq. ft. garage 660 sq. ft. driveway 100 sq. ft. sidewalk 3000 sq. ft. total



### **Shoreland Zoning Changes - Shoreland Mitigation**

- What might you have to do for a shoreland mitigation project?
  - Dunn County identifies practices that are appropriate for local conditions
    - Rain garden or other stormwater device
    - Restore or maintain a vegetative buffer
    - Remove a non-conforming accessory structure
    - Replace a current patio with impervious materials
    - Install eave troughs/rain barrels







## **Shoreland Zoning Changes Nonconforming Principal Structures**

- Maintenance
  - unlimited within existing building envelope
- Expansion
  - o-35 feet from OHWM- prohibited
  - 35-75 feet from OHWM- vertical expansion only
  - 75 feet + from OHWM vertical or horizontal
- Replacement/Relocation
  - o-35 feet from OHWM- prohibited
  - Only if no other compliant location available
  - All other non-conforming structures on lot removed

### Diagram D:

Nonconforming Principal Structure Located greater than 35 feet from the OHWM. Horizontal Expansion at a setback greater than 75 feet from the OHWM.



115.05(1)(g)5m

- Use has not been discontinued for a period of 12 months or more
- All other provisions apply

### Summary

- Healthy, natural shorelands provide lakes and rivers with high water quality, good fishing, and higher property values
- Pollution from one farm/field or residence has been easy to ignore as insignificant, but it cannot be ignored any longer because the sum of the thousands of pollution sources is the main cause of today's water quality problems.
- We all need to take responsibility and actions to reduce our impact on the environment
- Counties need to revise their shoreland ordinances to comply with NR 115 by February 1, 2014
- The new rules provide flexibility that the old rules did not
- Assistance is available through County staff, UW-Extension, and DNR staff

### Comments, Questions??

### Mike Wenholz

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### **Cleo Herrick**

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