

Shoreland Zoning History

State of WI has obligation to protect the public's rights in all navigable waters including boating, fishing, swimming & hunting.

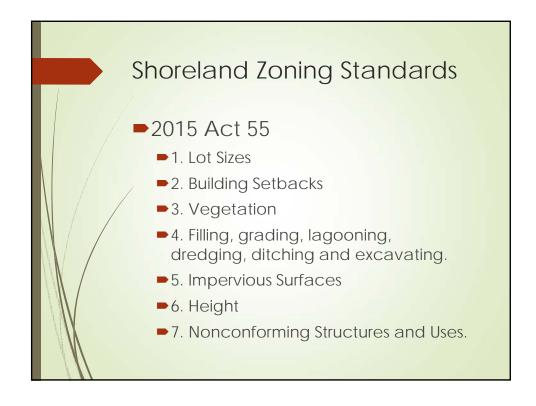


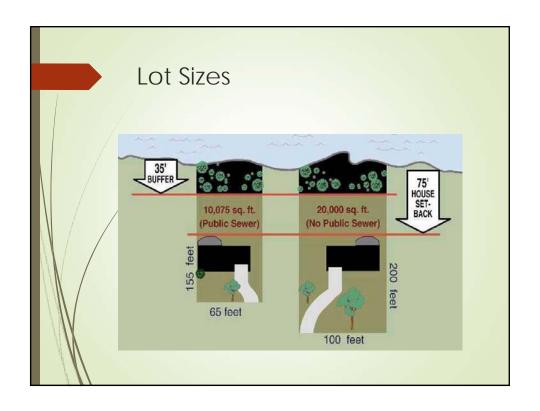


 Shoreland zoning, adopted in 1966, protects public rights through its purposes.

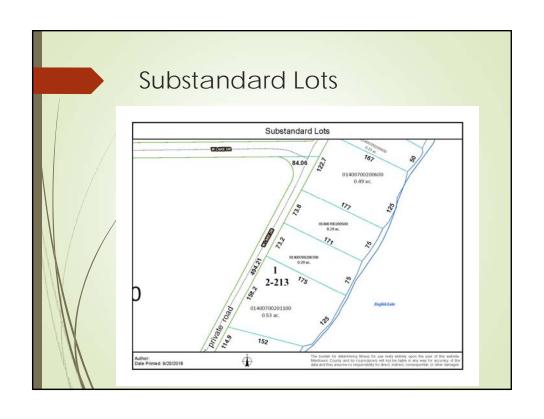
Manitowoc County Shoreland Ordinance

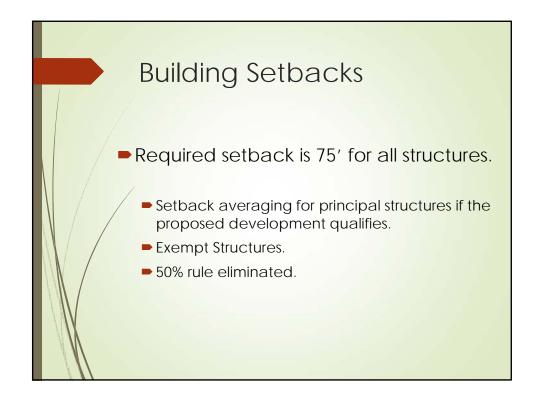
- Effective October 1, 2016
- Purpose (Wis. Stat. § 281.31)
 - Preserve the safety and well being of the people who utilize the shoreland.
 - Aid in the prevention and control of water pollution.
 - Protect spawning beds, fish and aquatic life.
 - Control building sites, placement of structures and land uses.
 - Preserve shore cover & natural scenic beauty.

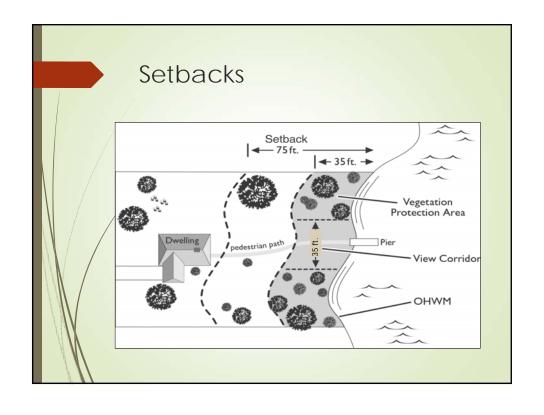


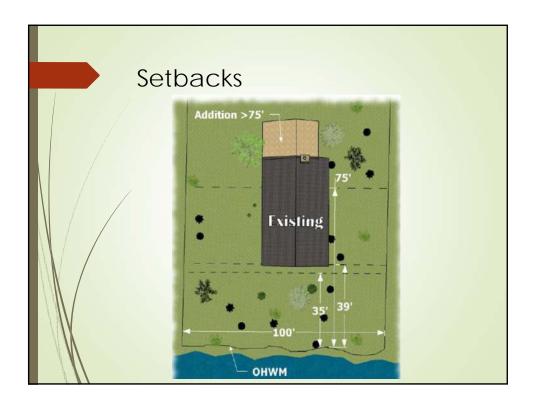


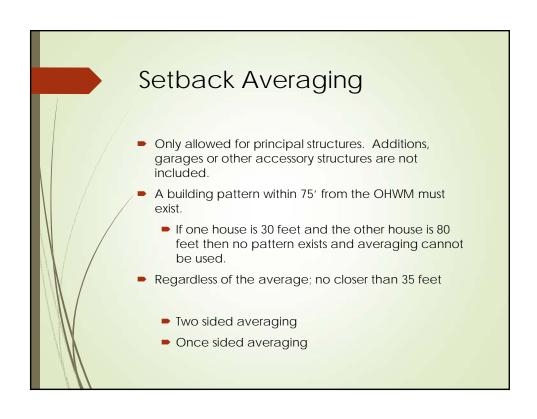


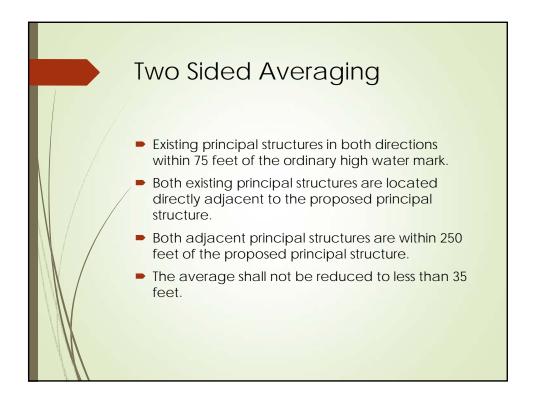


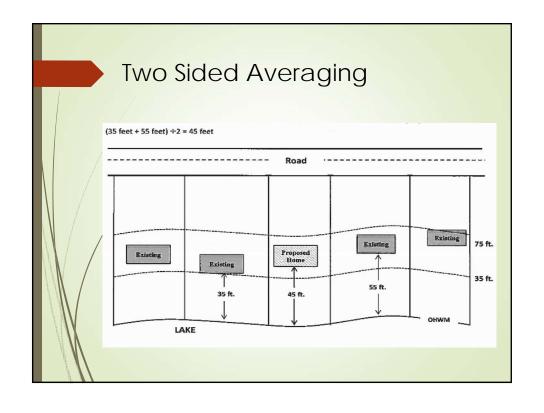






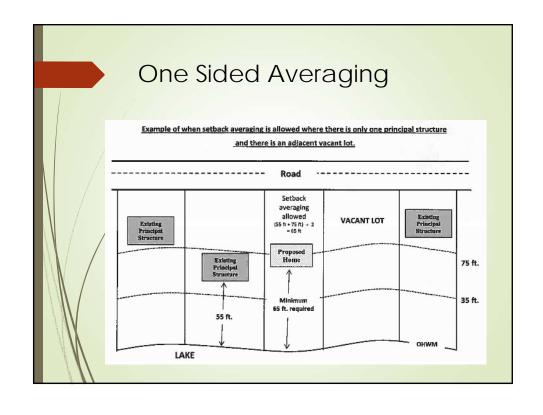


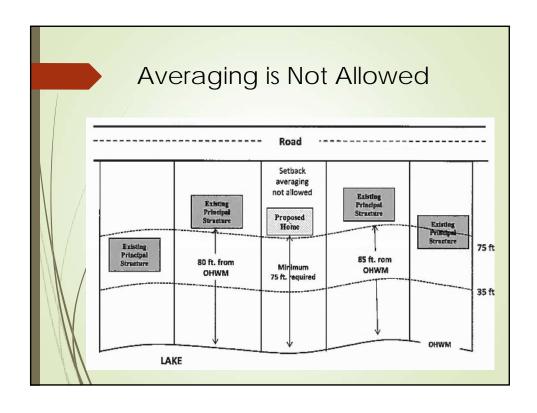


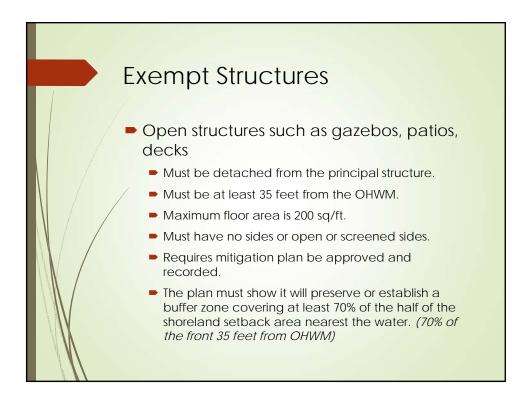


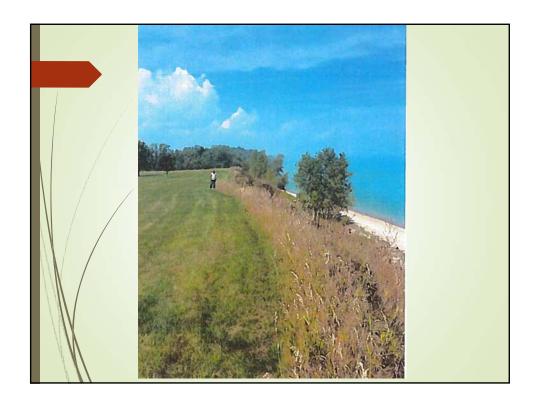
One Sided Averaging

- An existing principal structure in only one direction on an adjacent lot and the other adjacent lot is vacant.
- The setback shall be equal to the average of the adjacent existing principal structure and 75 feet.
- The existing principal structure is within 250 feet of the proposed principal structure.
- The existing principal structure is less than 75 feet from the OHWM.
- The average setback shall not be reduced to less than 35 feet.





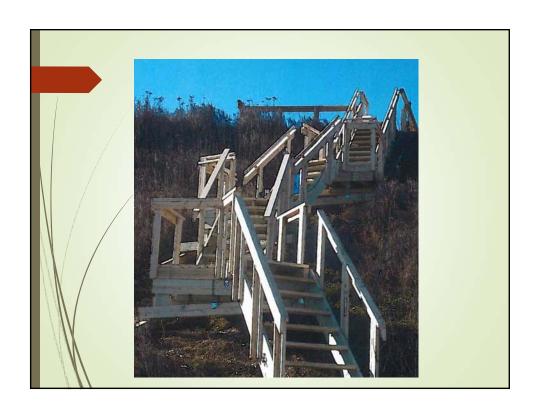


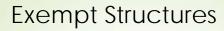




Exempt Structures

- Stairway and walkways
 - Required for shoreline access.
 - ■Located in view corridor.
 - Maximum width is 60 inches.
 - Maximum railing height is 42 inches.
 - No canopies or roofs.
 - Landings when needed for safety shall not exceed 25 square feet.



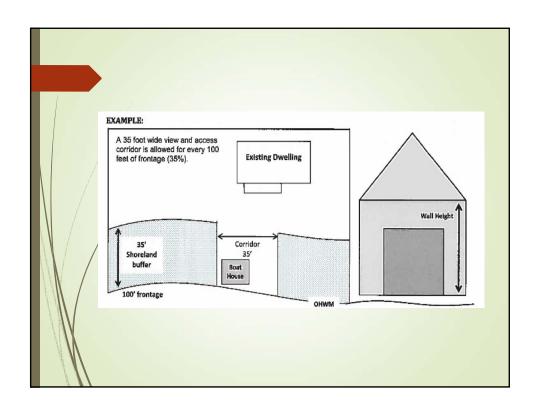


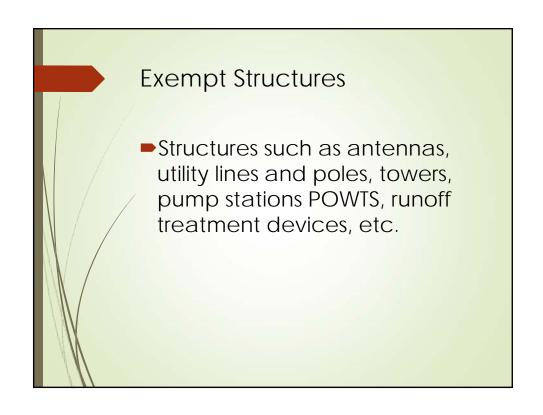
Boathouses

- Designed solely for the storage of boats and related equipment.
- Shall not extend beyond the OHWM.
- The largest door or opening shall face the water and be adequate in size to accommodate a boat from the water.
- Shall have a pitched roof of three to one or steeper.
- Shall be located entirely within the access and viewing corridor.
- Must meet impervious surface requirements.

Boathouses

- Shall not contain plumbing
- Shall not be used for human habitation
- Shall have a maximum of 2 windows not exceed
 9 square feet per window.
- Maximum size of 400 sq/ft in floor area.
- Sidewalls no higher than 10 feet.
- Only one boathouse per lot.
- Existing boathouses which existed prior to the ordinance and have a flat roof may use it as a deck IF:
 - The roof has no walls or screens.
 - The roof has no railings other than those that meet DSPS standards.





Lake Michigan Regulations

- Recession rate setback 100 feet for principal structures, 50 feet for accessory structures.
 - Minimum 75' from the OHWM (toe of the slope)
- Additional bluff setback from toe of the slope is 2
 ½ times the height of the bluff plus recession rate.
 - This formula is designed to keep structures safe from bluff slumping.
- Impervious surface required within 300 feet of the OHWM.





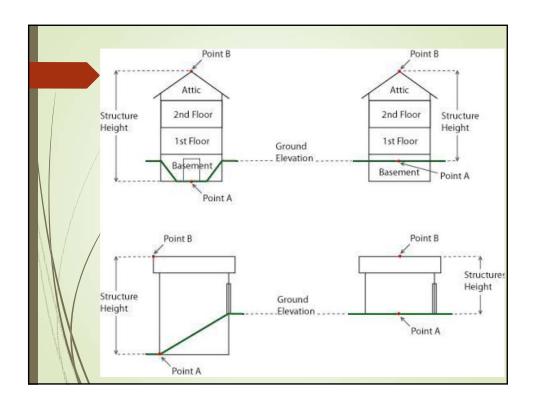








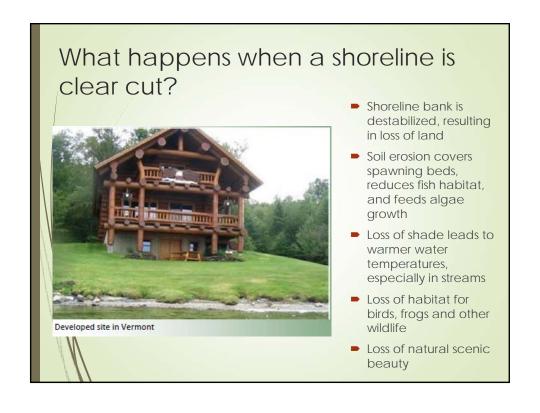
Height - Measurement 35' Maximum within 75' of water body Measurement is normally to roof ridge. Chimneys, etc. have not been typically counted in the measurement. Model ordinance diagrams.

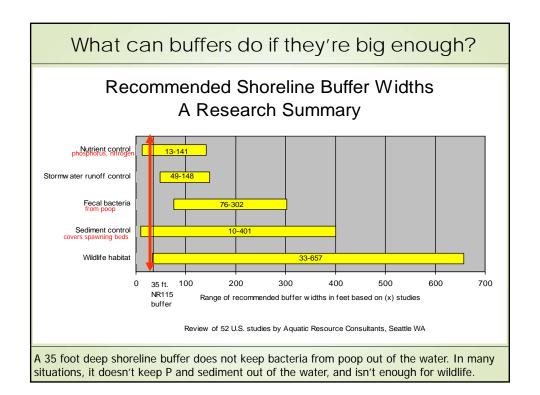


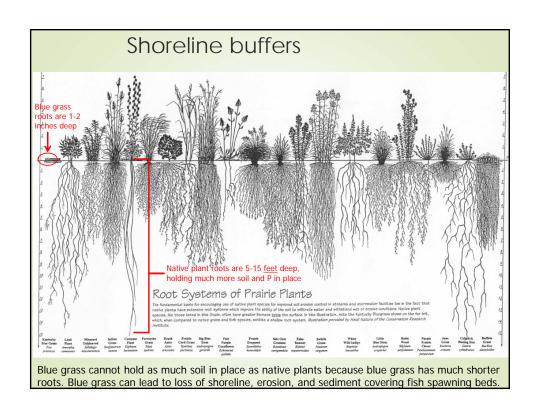
Vegetative Buffers

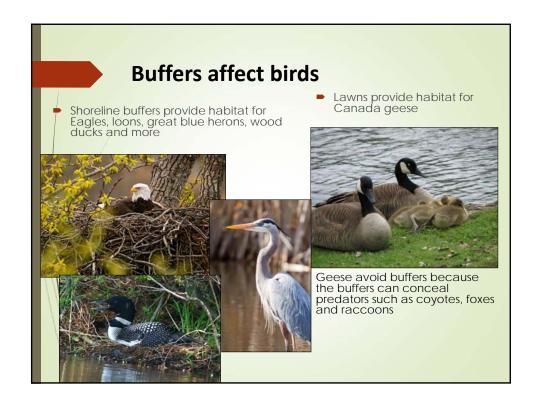
- The area that extends from the OHWM to a minimum of 35' inland landward is designated as a vegetative buffer zone and prohibits the removal of vegetation.
 - Exceptions:
 - Viewing corridor 35' for every 100' and allowed to run contiguously.
 - Routine maintenance.
 - Forestry practices.
 - Removal of dead, diseased or exotic species.







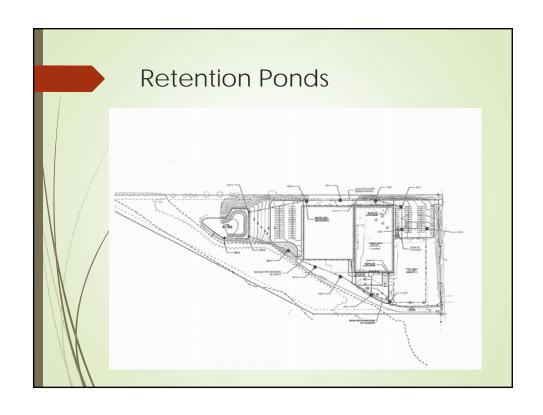




Filling and Grading

- A filling and grading permit is required within 300 feet of the OHWM and has surface drainage towards the water where there is either:
 - Filling or grading on slopes of 20% or more,
 - Filling or grading of more than 1,000 sq/ft on slopes greater than 12% and less than 20%,
 - Filling and grading of more than 2,000 sq/ft on slopes of 12% or less.





Impervious Surface

- What is an impervious surface (IS)?
- An area that releases <u>all or a</u> <u>majority</u> of the precipitation that falls on it.
- Roofs, driveways, patios, sidewalks, decks, etc.

Shoreland zoning standards protect property values Less clear water = Lower waterfront property values

A study of over 1200 waterfront properties in
Minnesota found when water clarity went down by 3
feet, waterfront property values around these lakes
went down by tens of thousands to millions of dollars

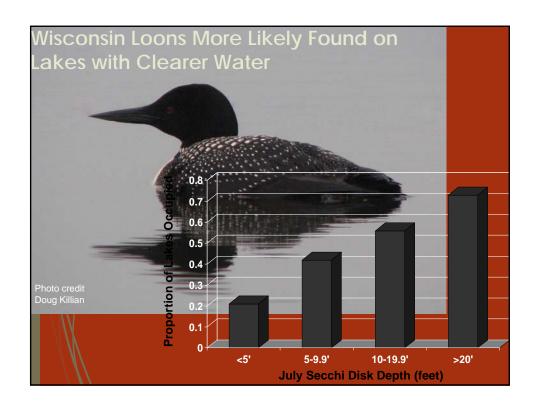


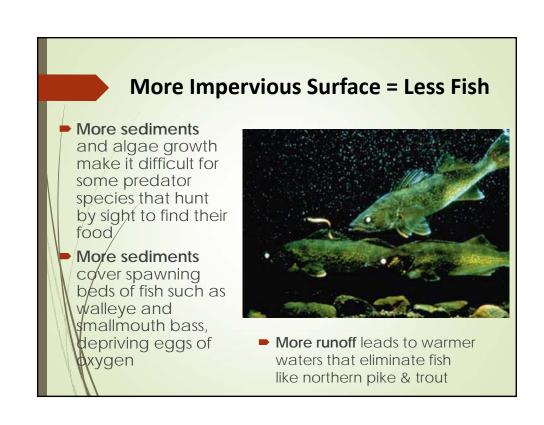


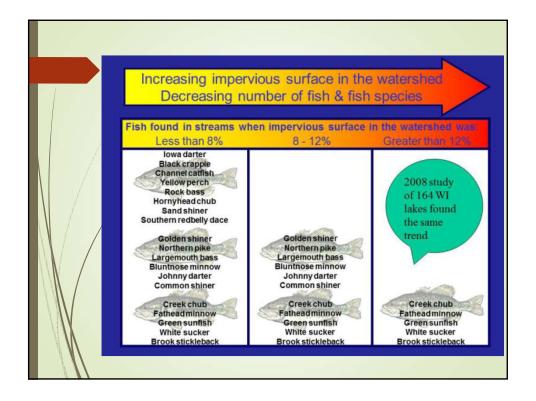
What shoreland practices make water less clear?

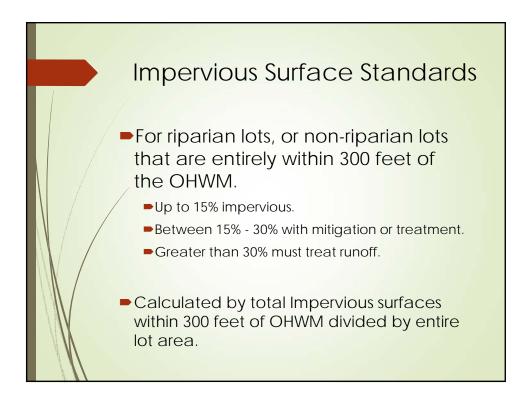
- Soil erosion
- Rooftops and pavement close to the water cause runoff that carries pollutants to waterway
- No shoreline buffer to filter runoff

ee Protecting Your Waterfront Investment at uwsp.edu/cnr-ap/clue/Documents/Water/ShorelandInvestment2013.pdf



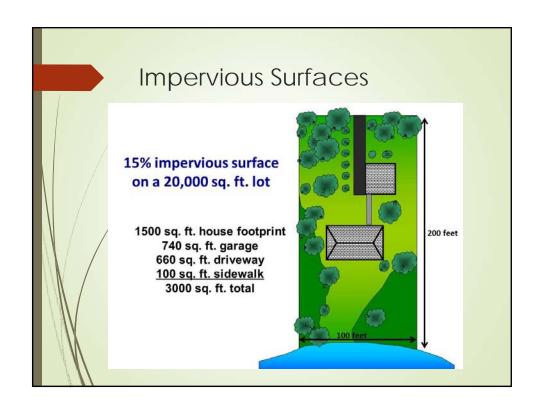






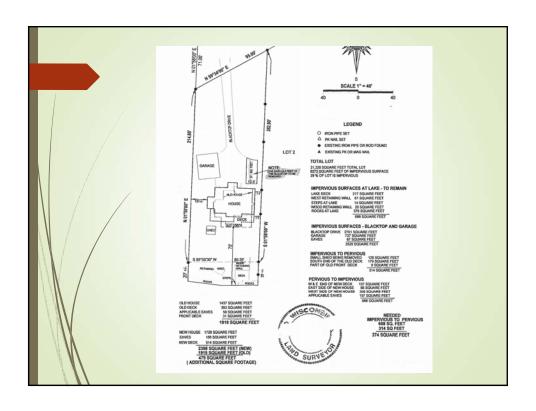
Impervious Surface Standards

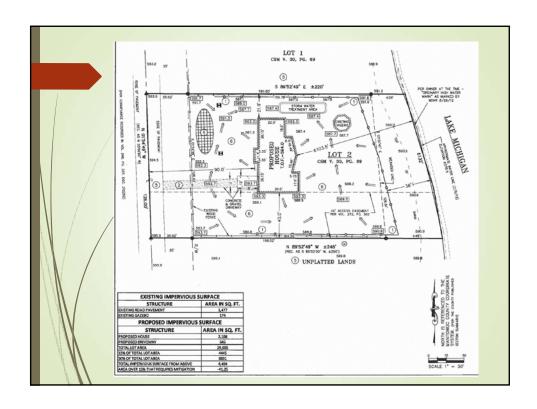
- Keep the Impervious Surfaces you have.
- Exclude IS that treated by stormwater ponds, rain gardens or other engineered systems.

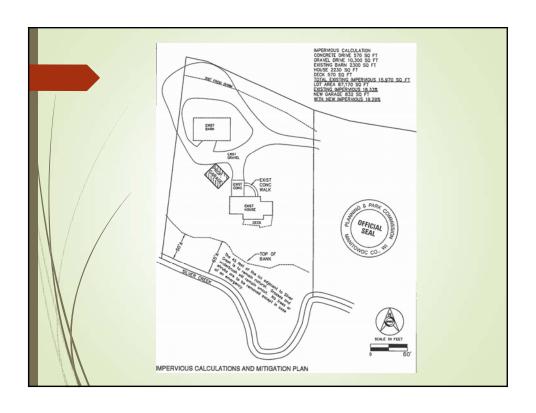


Impervious Surface Calculations

- We need to see the total amount of pervious surface for the entire lot.
- Total amount of existing impervious surface within 300 feet of the OHWM.
- Total amount of proposed impervious surface within 300 feet of the OHWM.
 - Typically completed by engineer, surveyor, or other licensed contractor.
 - Required plan.







Impervious Surface for Highly Developed Areas

- NR 115 section 9.4
 - Either identified as an Urbanized Area or Cluster in the 2010 US Census or a commercial, industrial, or business land use as of January 31, 2013

OR

After conducting a hearing and receiving approval from the WDNR the county has mapped additional areas of highly developed shorelines that are at least 500 feet in length and meet one of the following criteria:

Impervious Surface for Highly Developed Areas

- Required Criteria
 - The majority of the lots are developed with more than 30% of impervious surface area.
 - Located on a lake served by a sewerage system as defined in NR 110.03(30) Wis. Adm. Code.
 - The majority of the lots contain less than 20,000 sq/ft in area.
- Lake Association or Town would need to complete this information and prove it to the WDNR and then a separate hearing held for approval.

Non-Conforming Structures

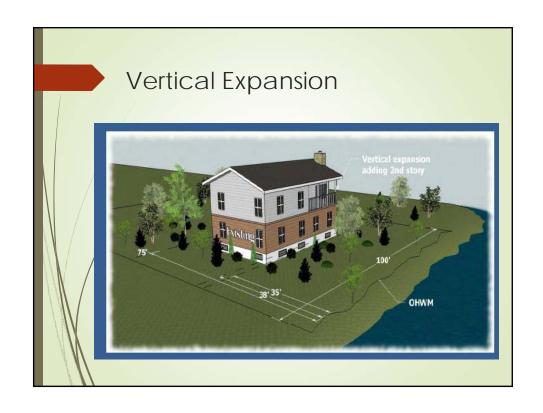
■ A lawfully placed structure that does not comply with the required setback from the ordinary high water mark as identified in NR 115.05(1)(b).

Nonconforming Structures - activities allowed

- A nonconforming structure may be maintained, repaired, replaced, restored, rebuilt or remodeled if the activity does not expand the footprint.
 - Includes principal and accessory structures.

Nonconforming structures – activities allowed cont.

- A nonconforming structure may be expanded vertically within setbacks.
 - 2nd story to a residence or garage.
 - Changing roof pitch and side wall height on shed.
 - Max. 35' height.
 - Principal and accessory structures.
 - Exact same footprint as first floor.
 - No impervious surface requirements.



Nonconforming structures – activities allowed cont.

- A nonconforming principal structure may be expanded laterally within setbacks.
 - The use of the structure has not been discontinued for 12 months or more as a nonconforming use.
 - No closer than existing principal structure to OHWM.
 - The existing principal structure is at least 35 feet from the OHWM.
 - 200 square foot limit over the life of the structure.
 - A mitigation plan must be submitted, approved and recorded on the deed.

Relocation of nonconforming principal structures

- The use has not been discontinued for a period of 12 months or more.
- The existing structure is at least 35 feet from the OHWM.
- No portion of the relocated structure is any closer to the OHWM than the closes point of the existing principal structure.
- Manitowoc County determines there's no other location available on the property to build that would comply.
- A mitigation plan is submitted, approved and recorded.

Mitigation

"balancing measures that are designed, implemented and function to restore natural functions and values that are otherwise lost through development and human activities."

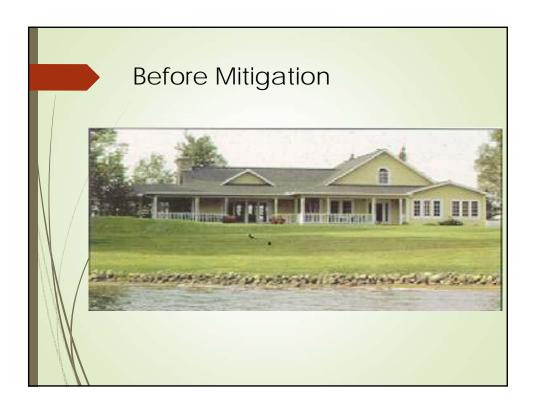
Shoreland Mitigation Mitigation is triggered by: Increasing impervious surfaces over 15%. Expanding nonconforming structures.

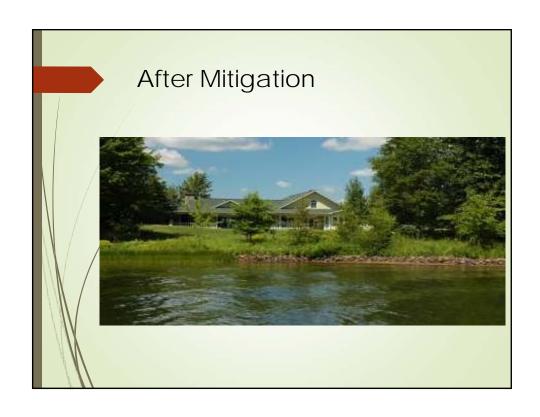
Shoreland Mitigation Examples

- Rain Gardens.
- ■Update Septic System.
- Removal of Non-Conforming Structures.
- Buffer Restoration.
- Wetland Restoration.
- Reduce visual and lighting impacts.

Shoreland Mitigation Plans

- Based on a point system. Owners must obtain 3 points to obtain an approved mitigation plan.
- Affidavit approving of the plan must be completed and notarized.
- Record affidavit on main property deed not in the misc. column.
- ► Failure to implement the plan would result in removal of the structure.
- Sometimes it can be as simple as stating: "The front 35' landward of the OHWM will remain wooded and in it's natural state. No tree, shrub, or vegetation removal of any kind will occur within this area except to remove damaged trees for safety purposes.



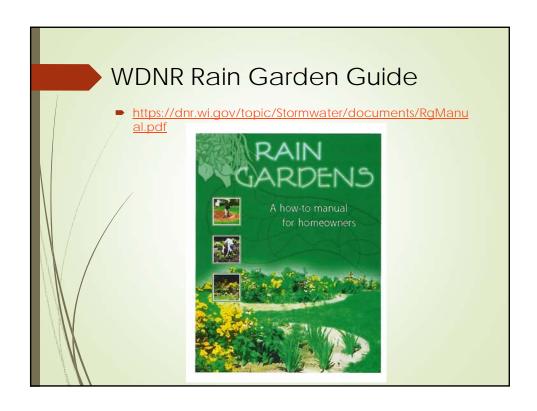


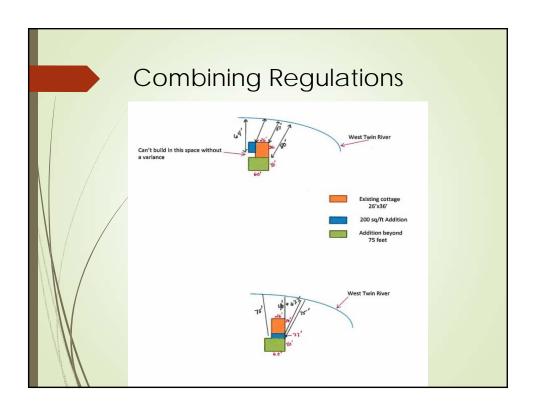
Treating Water Runoff for Mitigation

- Rain garden.
- Retention pond.
- Elevation data showing runoff will be contained on parcel.
- Must include an enforceable obligation on the owner to maintain the treatment system.
- Shall be recorded on the property deed.

Rain Gardens

- Licensed professional or someone agreeable to the department.
- Can be any size but usually will be dependent on:
 - type of soils.
 - depth of garden.
 - amount of surface area directed to the garden.
 - based on 24 hour average annual rain event of 2.11 inches per square foot.





Pervious Pavers

- Normally only a percentage of the paver is pervious.
- Based on Manufacturer's specifications.
- A licensed professional will calculate the amount of impervious remaining based on the annual 24 hour rain event.
- May need to have a reduced rain garden to catch the remaining runoff.

Retaining Walls and Fences

- Permits required.
- Same footprint and same location no impervious surface is required.
- New, longer, or wider walls or fence will require impervious surface calculations, and also setback from OHWM or a variance is required.
- Same size structure could be moved to a better location on the property and not require impervious surface calculations; however, a variance would be required because it's not in the same footprint location as the old wall/fence.

