The Michigan Natural Shoreline Partnership

Brian Majka

GEI Consultants

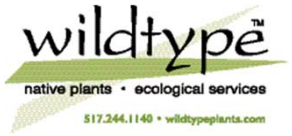
Michigan Natural Shoreline Partnership

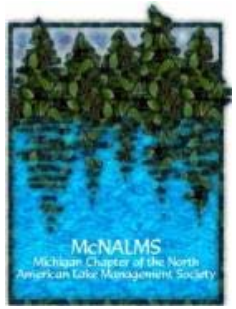
MISSION: PROTECTING MICHIGAN LAKES THROUGH THE CONSERVATION AND RESTORATION OF NATURAL SHORELINES

FOUNDED IN 2008 AS A COLLABORATION OF PUBLIC, PRIVATE, ACADEMIC, AND NON-PROFIT ENTITIES

www.mishorelinepartnership.org

Michigan Natural Shoreline Partnership Members



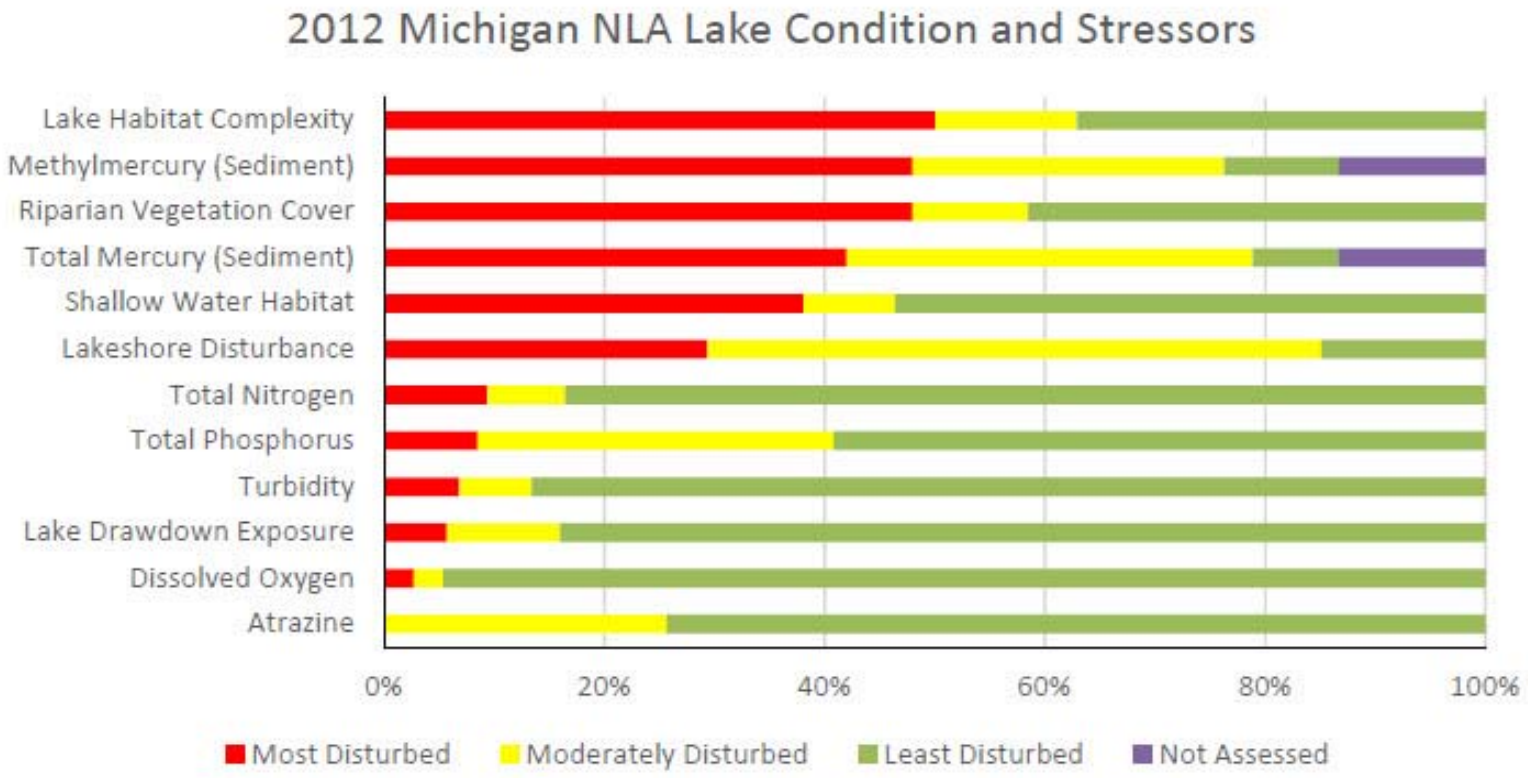



1 Threat
to inland lakes is ….
A: Near shore habitat loss
B: Excessive nutrients
C: Excessive plant growth
2007 National and Michigan Lake Assessment

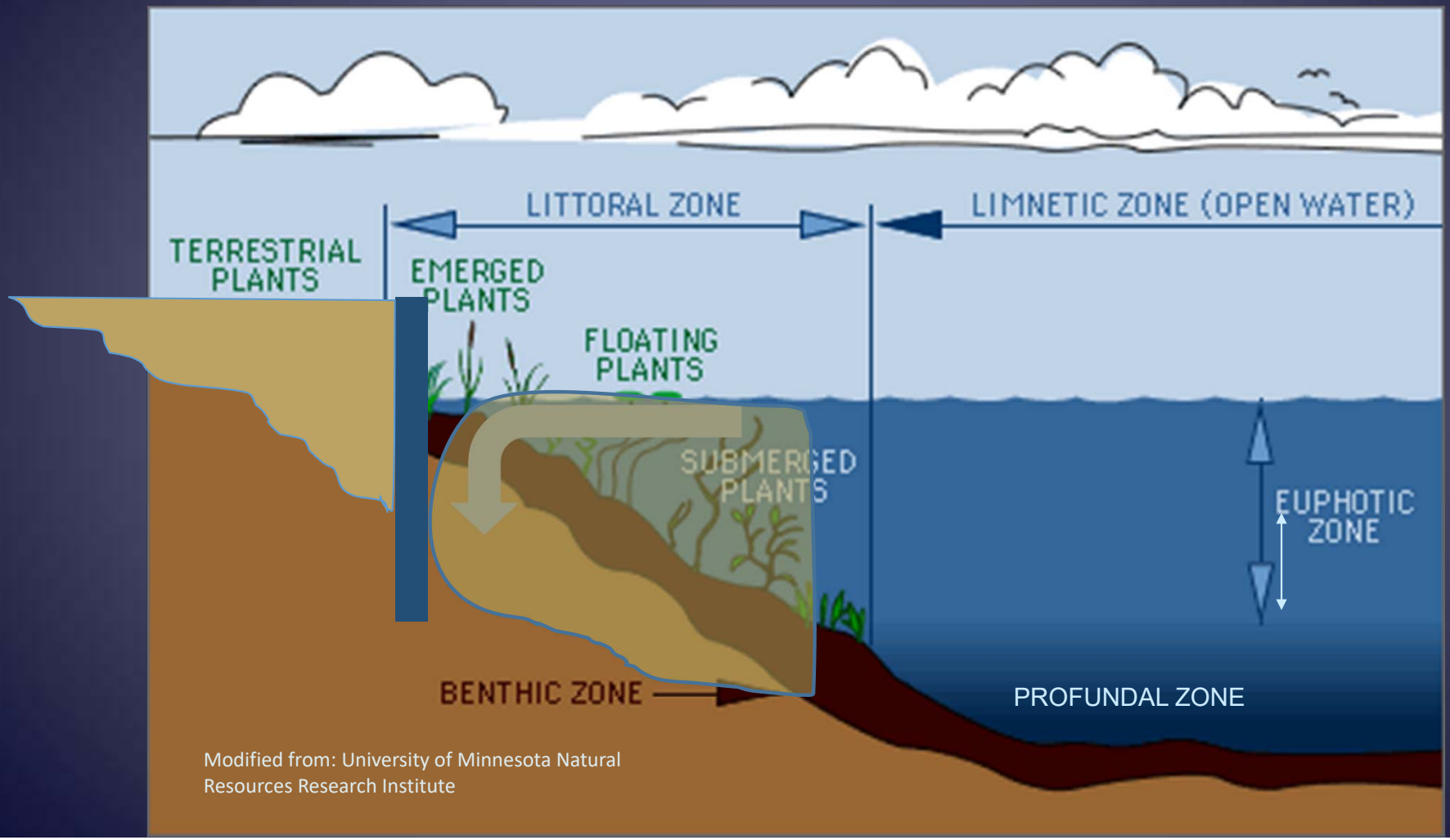
Near Shore Habitat Loss

#1 Threat to inland lakes

Lakes with POOR Habitat Complexity 50%



The system becomes broken

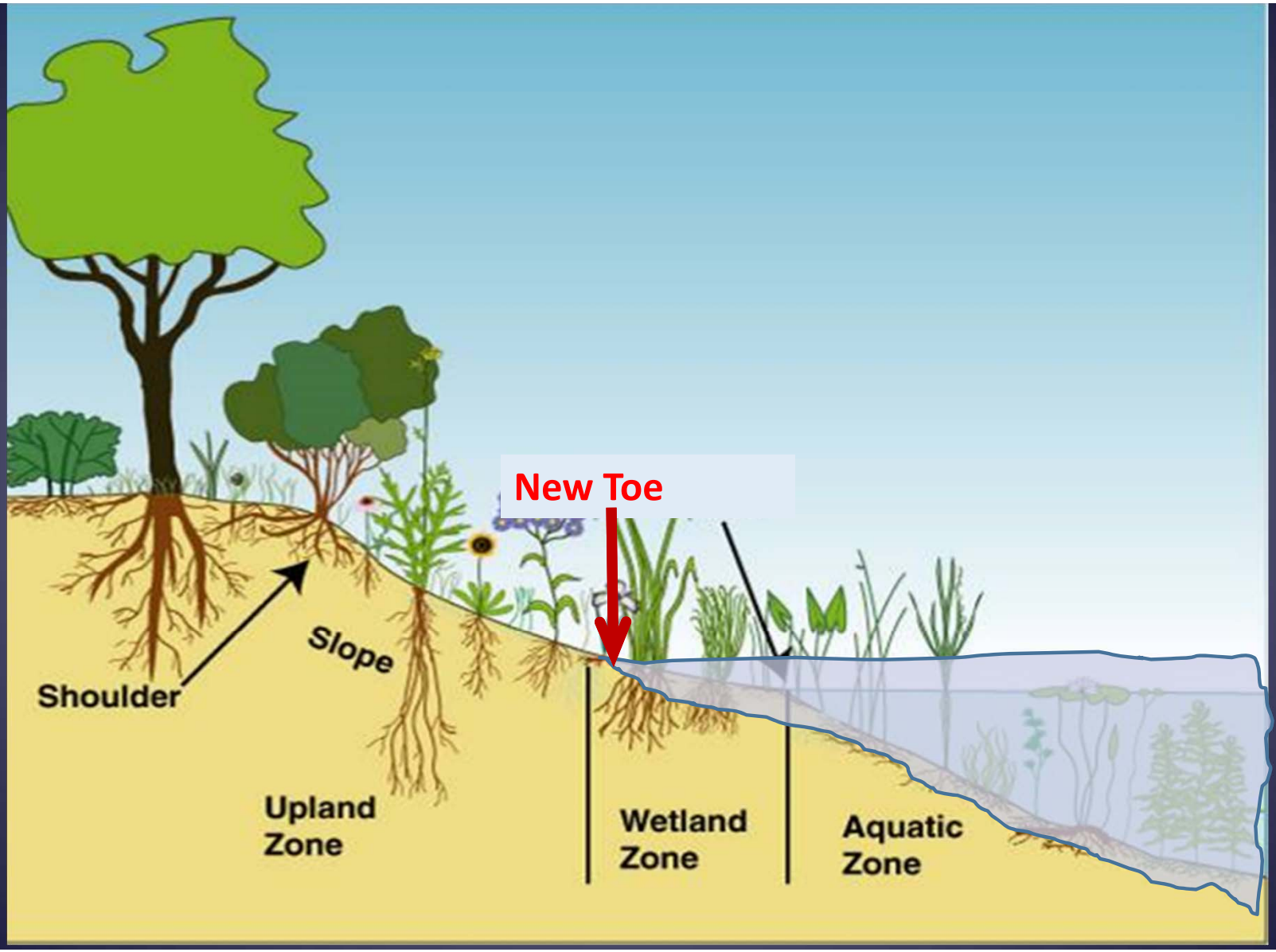


Modified from: University of Minnesota Natural Resources Research Institute

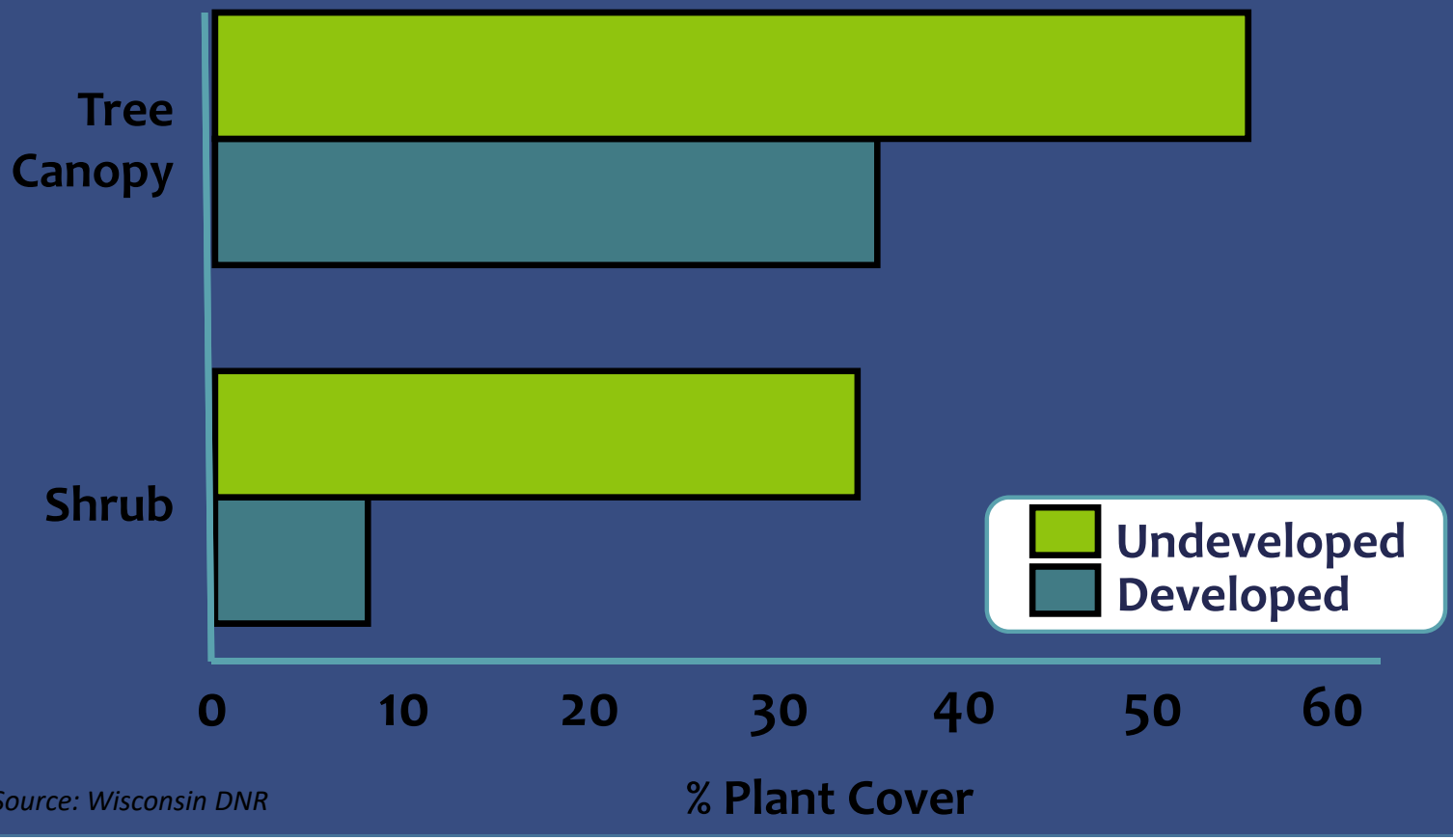
Seawalls =

- Barrier for animal movement
- Creates scouring effect
- Wave flanking


Turfgrass roots:
Too short
Not strong enough

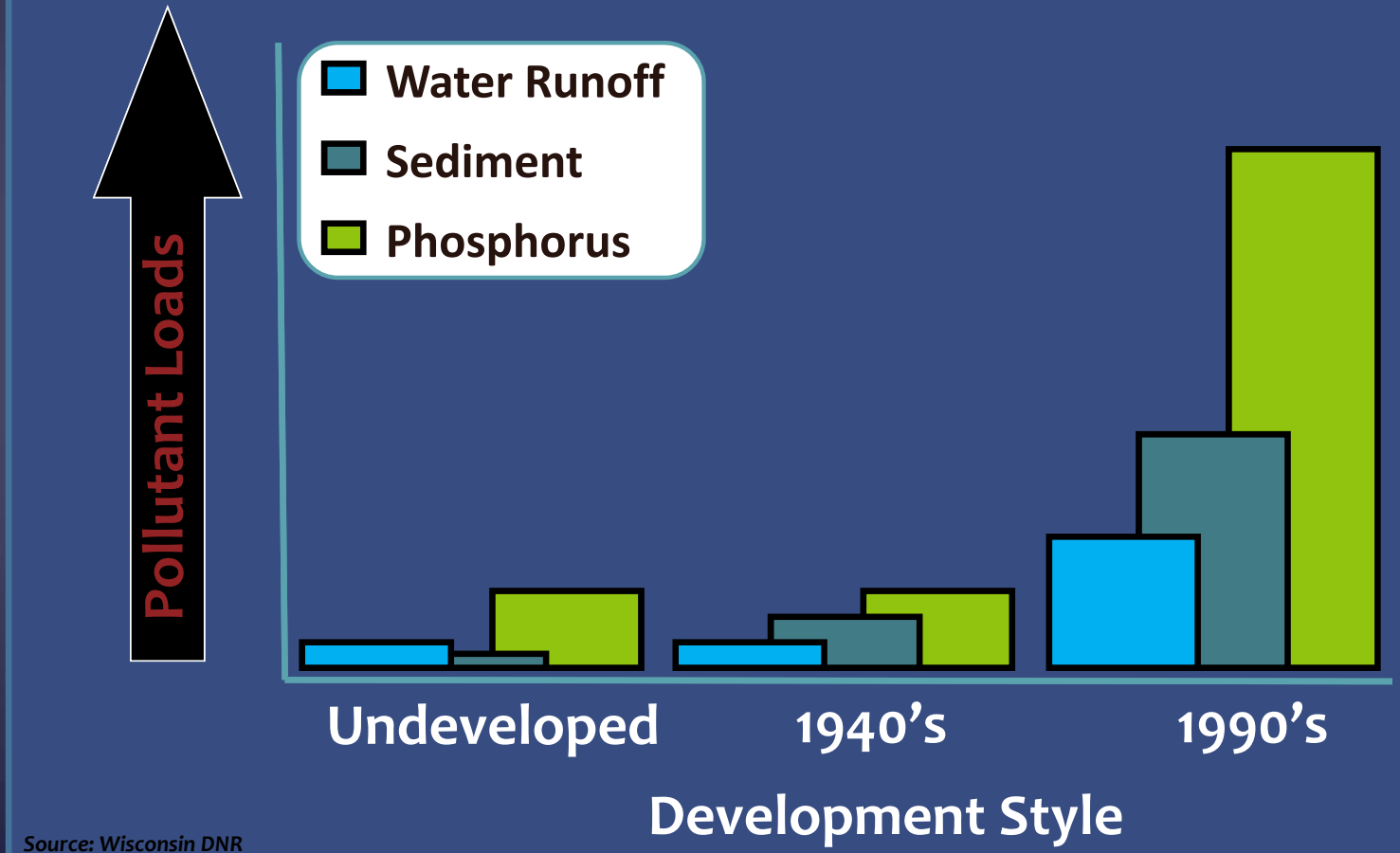

New Toe
Shoulder
Slope
Upland Zone
Wetland Zone
Aquatic Zone

What's Happened to Shoreland Plants?



Source: Wisconsin DNR

Impacts of Lake Development

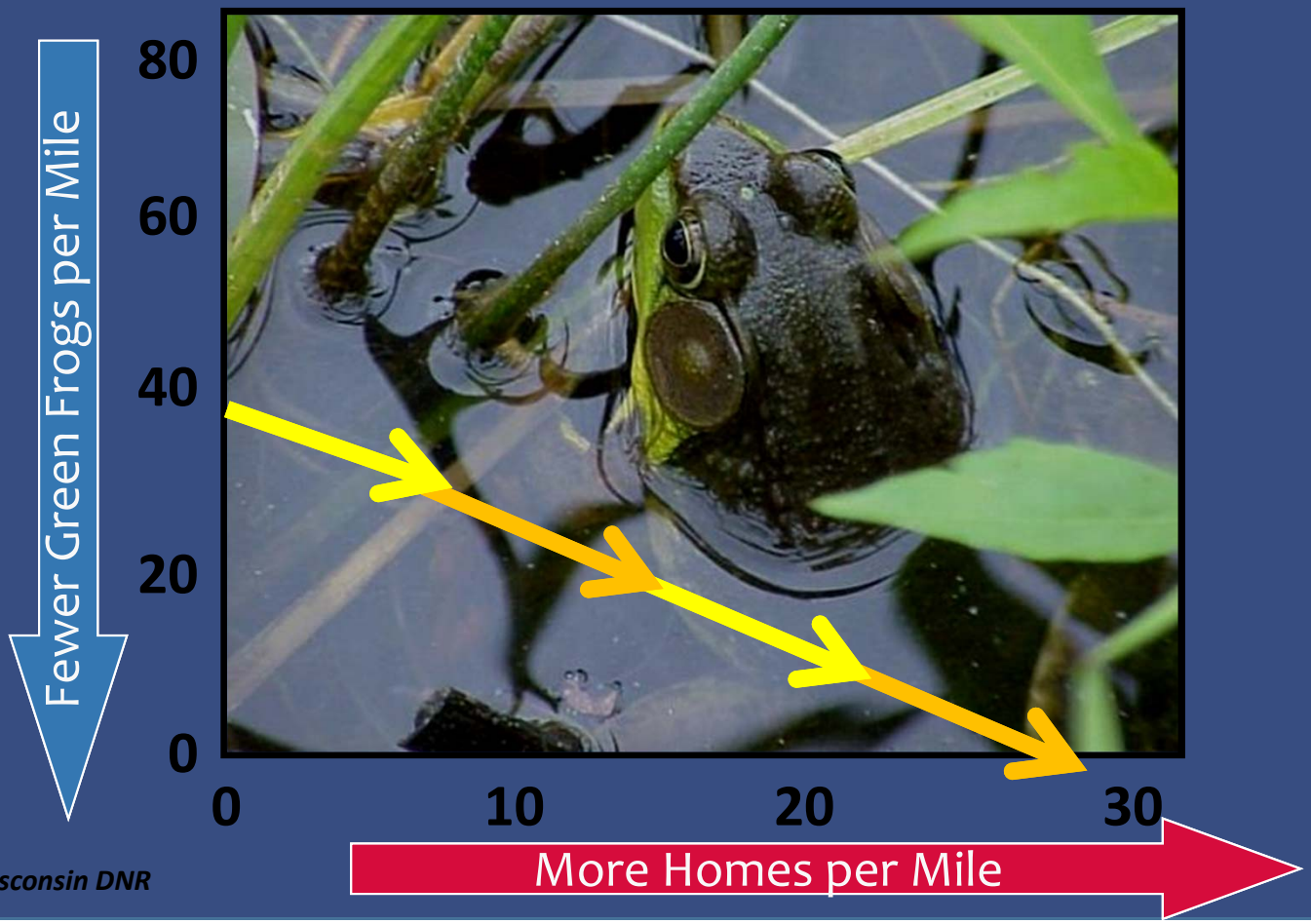


Source: Wisconsin DNR

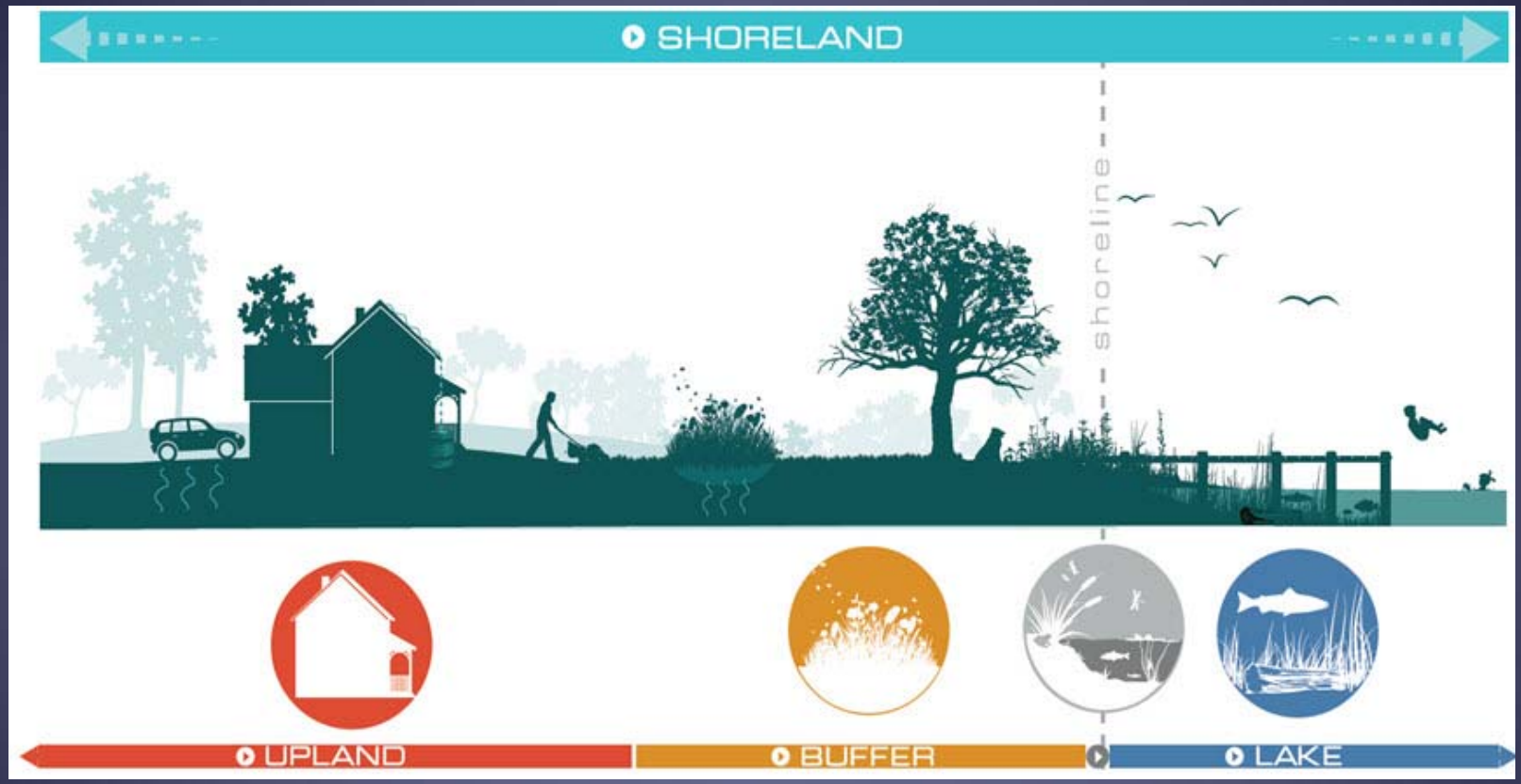
What's Happened to Aquatic Plants?

Source: Wisconsin DNR

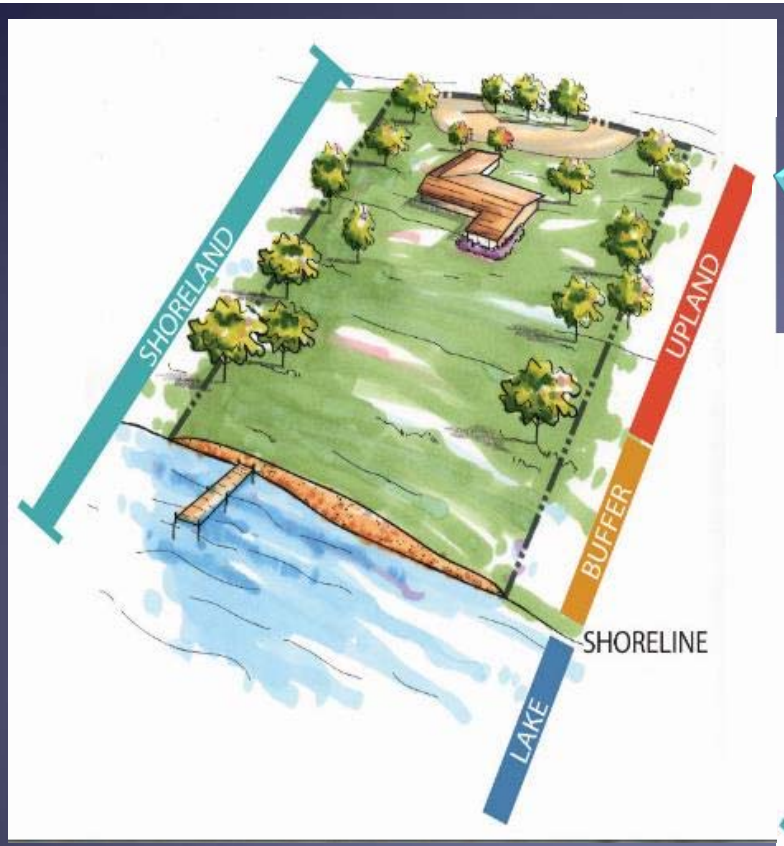
What's Happened to Frogs?

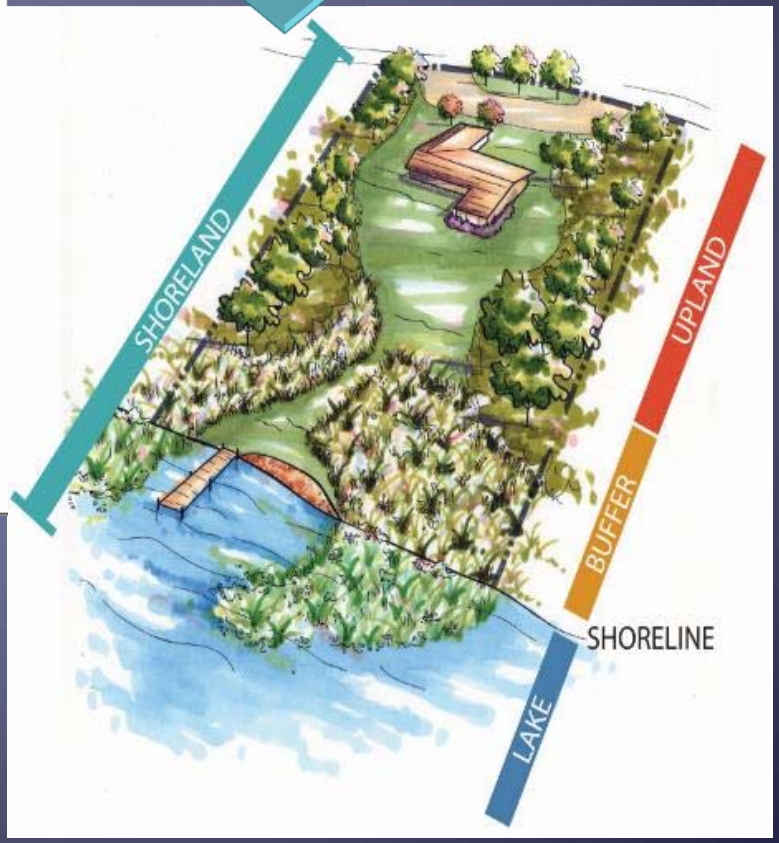


Source: Wisconsin DNR


SHORELAND
shoreline
UPLAND
BUFFER
LAKE


Buildings and other hard surfaces should be minimized.
Reduce chemical and fertilizer use
Maintain septic system
Minimize lawn
Prevent dirty stormwater from getting to the lake
Maintain a naturally vegetated lot with trees, shrubs and wildflowers.
Pick up animal waste
Use bio-engineering for shoreline erosion control
Keep shoreline stable by not clearing native plants
Prevent erosion
Protect wildlife habitat by leaving woody structure and native aquatic plants


SHORELAND
UPLAND
BUFFER
SHORELINE
LAKE


SHORELAND
UPLAND
BUFFER
SHORELINE
LAKE

Four Objectives of MNSP

Informed Contractors

Policy Changes

Healthier Shorelines

Interested Property Owners

Techniques that work

Species Supported by Shorelines:

24 amphibian

25 reptile

87 bird

19 mammal

MNSP Objective

Informed Contractors

CERTIFIED NATURAL SHORELINE PROFESSIONAL TRAINING

- Over 300 Professionals Trained
- Over 200 Professionals Listed on website
- Homeowners can search for a contractor near them.


I MAKE
DIRT
LOOK GOOD!!

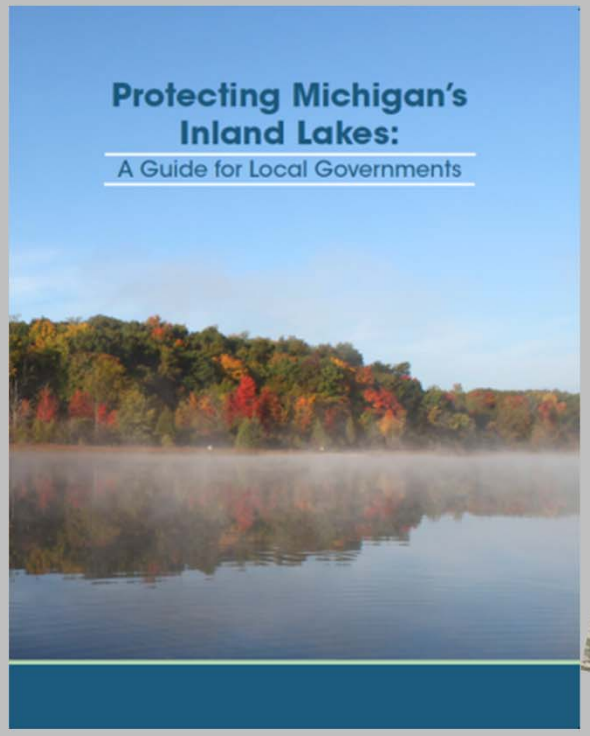
MNSP Objective

Policy Changes

DEQ Inland Lakes Permit:

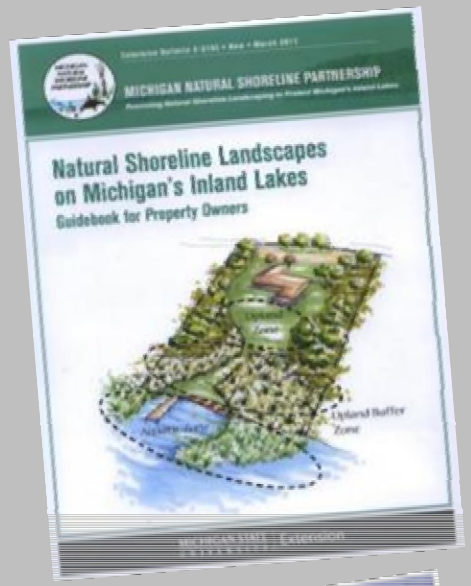
Bio-engineering Minor Project Category

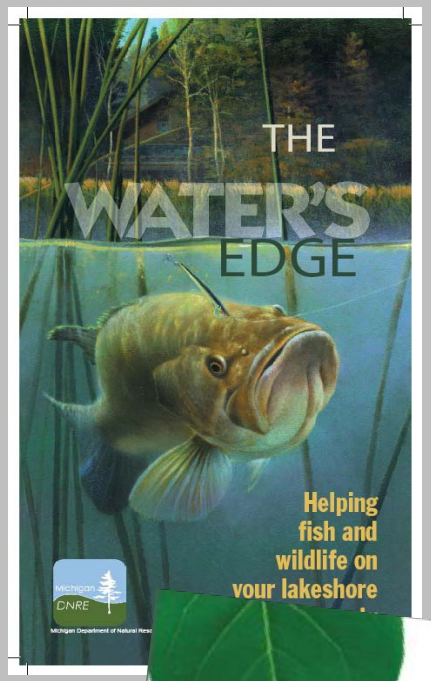
Created to encourage bioengineering on inland lake shorelines

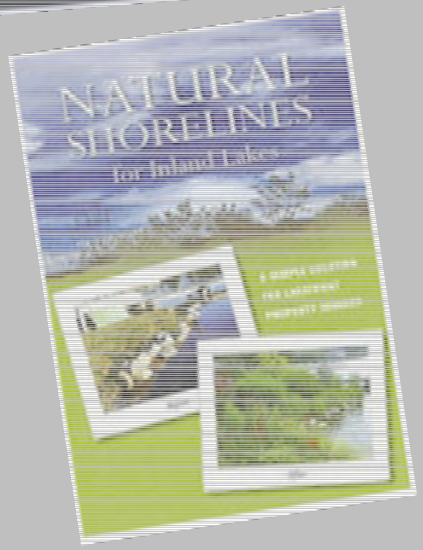


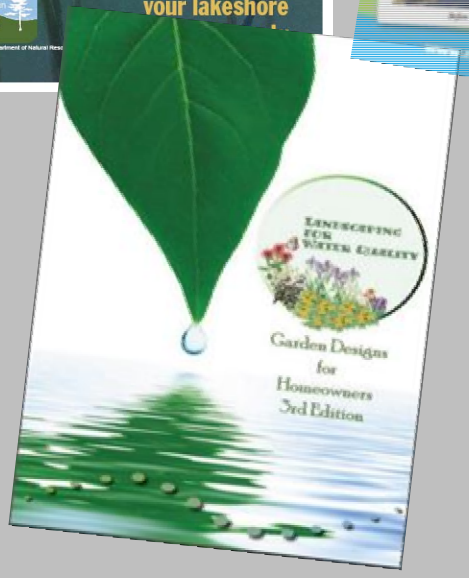
MNSP Objective

Interested Property Owners









MNSP Objective

Interested Property Owners

MNSP Objective

Interested Property Owners

Property Owner Recognition Program

SHORELAND STEWARDS AMBASSADOR

Training volunteers to take the next step as a Shoreland Steward to protect and preserve the health of their lake.

SHORELAND STEWARDS

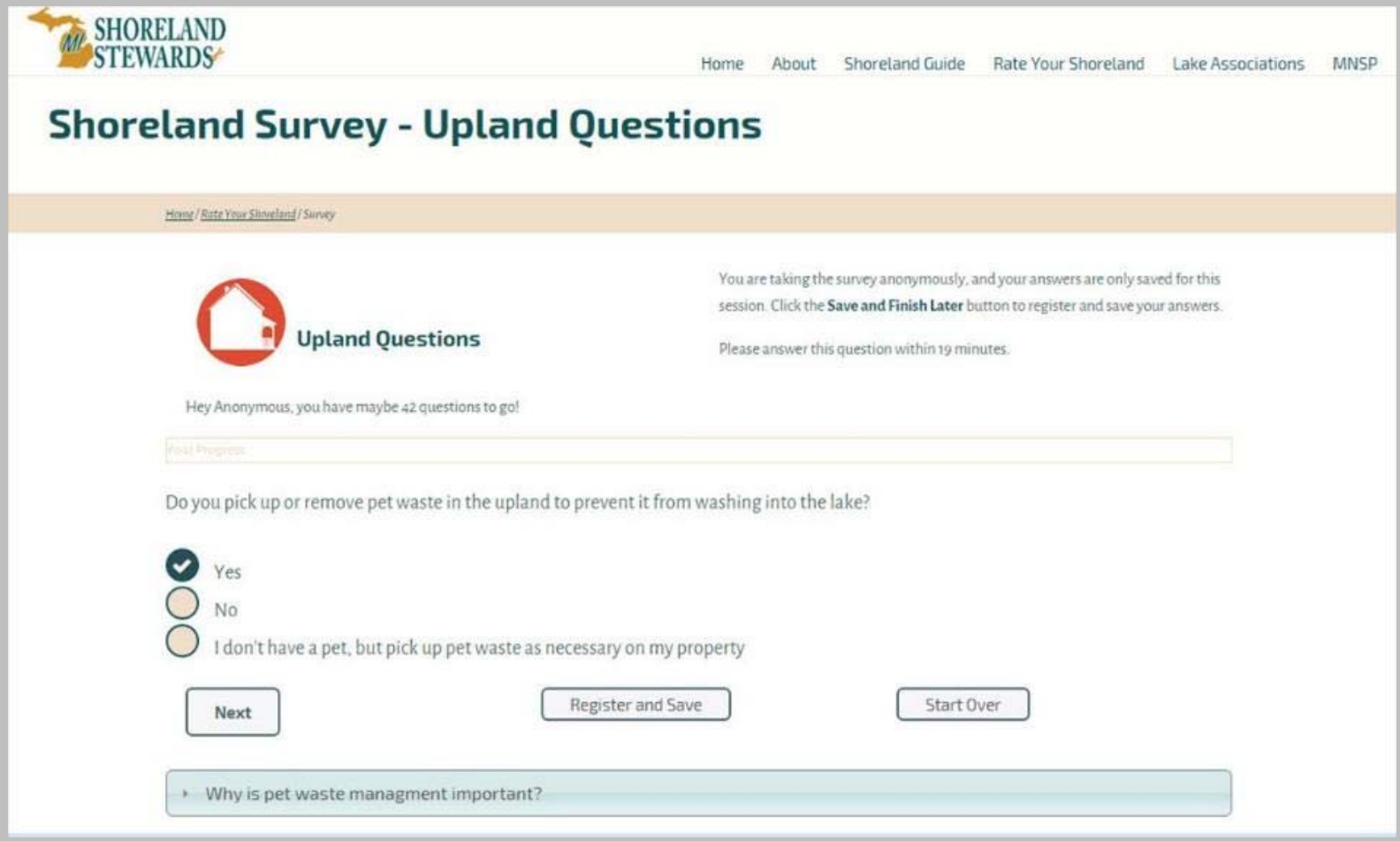
The **MI Shoreland Stewards program** is a statewide program developed to recognize lakeshore property owners who protect their lake through good shoreland management practices.

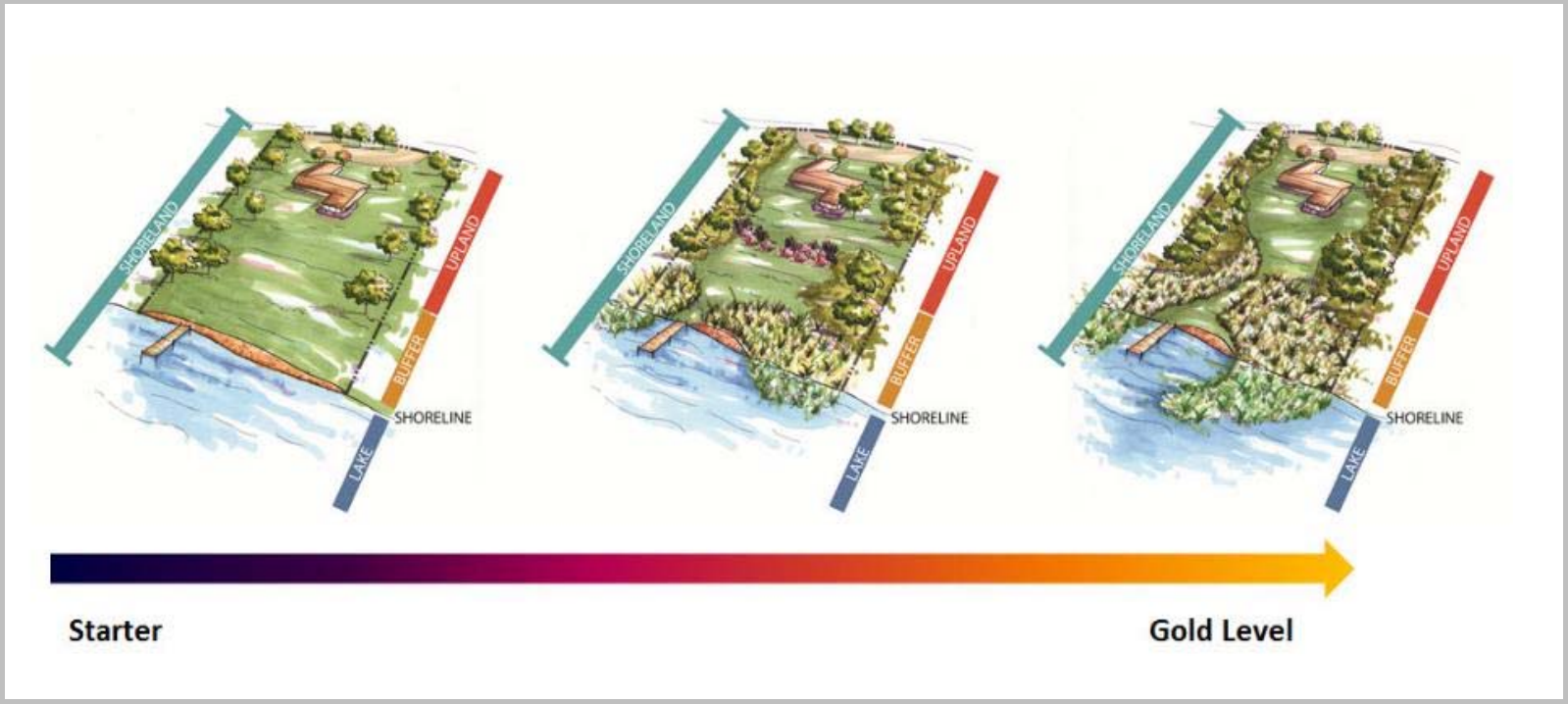
MICHIGAN NATURAL SHORELINE PARTNERSHIP

What are Best Management Practices?

Best management practices (BMPs) are actions that you can take to reduce your impact on your shoreland property. Shoreland best management practices help to protect water quality and the lake ecosystem through restoring natural characteristics and improving problem areas.

To learn more, visit www.mishorelandstewards.org


SHORELAND STEWARDS
Home
About
Shoreland Guide
Rate Your Shoreland
Lake Associations
MNSP
Shoreland Survey - Upland Questions
Home / Rate Your Shoreland / Survey
Upland Questions
You are taking the survey anonymously, and your answers are only saved for this session. Click the Save and Finish Later button to register and save your answers.
Please answer this question within 19 minutes.
Hey Anonymous, you have maybe 42 questions to go!
Your Progress
Do you pick up or remove pet waste in the upland to prevent it from washing into the lake?
Yes
No
I don't have a pet, but pick up pet waste as necessary on my property
Next
Register and Save
Start Over
Why is pet waste managment important?


SHORELAND
UPLAND
BUFFER
SHORELINE
LAKE
SHORELAND
UPLAND
BUFFER
SHORELINE
LAKE
SHORELAND
UPLAND
BUFFER
SHORELINE
LAKE
Starter
Gold Level

MNSP Objective *Techniques That Work*

MNSP Recommended Plant Lists

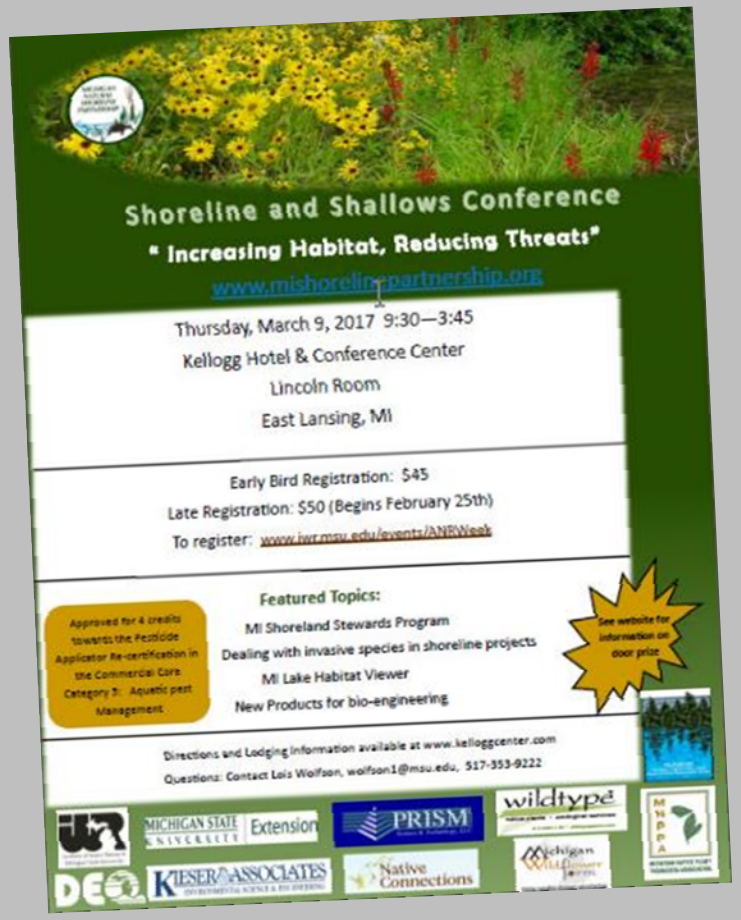
3 categories: wet to moist areas

- Below the Water Level
- Between Water Level and Ordinary High Water Mark
- Above the Ordinary High Water Mark

1 category: dry areas away from the shoreline

- Upland

MNSP Objective *Techniques That Work*




Thank you!
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