Wisconsin's Healthy Lakes Initiative and best management practices (BMP's)

Michigan Shoreline and Shallows Conference - "Increasing habitat, reducing threats" > March 9th, 2017

Healthy Lakes team representative : Patrick Goggin

- Lake Specialist

Wisconsin Lakes Partnership / UW-Extension Lakes

College of Natural Resources, University of Wisconsin-Stevens Point

< pgoggin@uwsp.edu >

WISCONSIN LAKES
WE SPEAK FOR LAKES!

WISCONSIN DEPT. OF NATURAL RESOURCES

UW Extension

College of Natural Resources

The Wisconsin Lakes Partnership

Agenda

- Welcome
  - Team introduction and initiative goals
  - Resources
  - Background information – why now?
- Healthy Lakes Initiative overview
- Five best management practices close up
- Grant application & administration
- Lake communities grant use summary > 2014-2017
- Visit the Healthy Lakes web site visit – show links
- Bony Lake fish sticks story
- Lean government update – initiative successes summary
- Que

Healthy Lakes

Healthy Lakes Team

THANK YOU to everyone who provided feedback, including the many partners who completed a customer survey and commented during the public review of proposed DNR guidance.

Additional contributors include: Cheryl Clemens, Karen Engelbretson, John Haack, Dave Kafura, Amy Kowalski, John Kriva & ERC, Jesha LaMarche, Eric Olson, Flory Olson, Tim Parks, Bret Shaw, Shelly Thomsen, Scott Toshner, Bone Lake Management District, Maine Lake Smart Program, and Vermont Lake Wise Program.

Citizens lead, and government follows.

https://youtu.be/HY0TyTdoFfk

https://youtu.be/RzckDLWUTOI

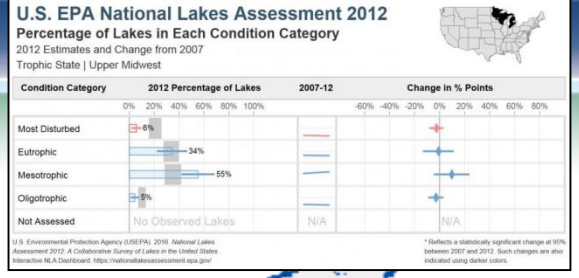
Resources

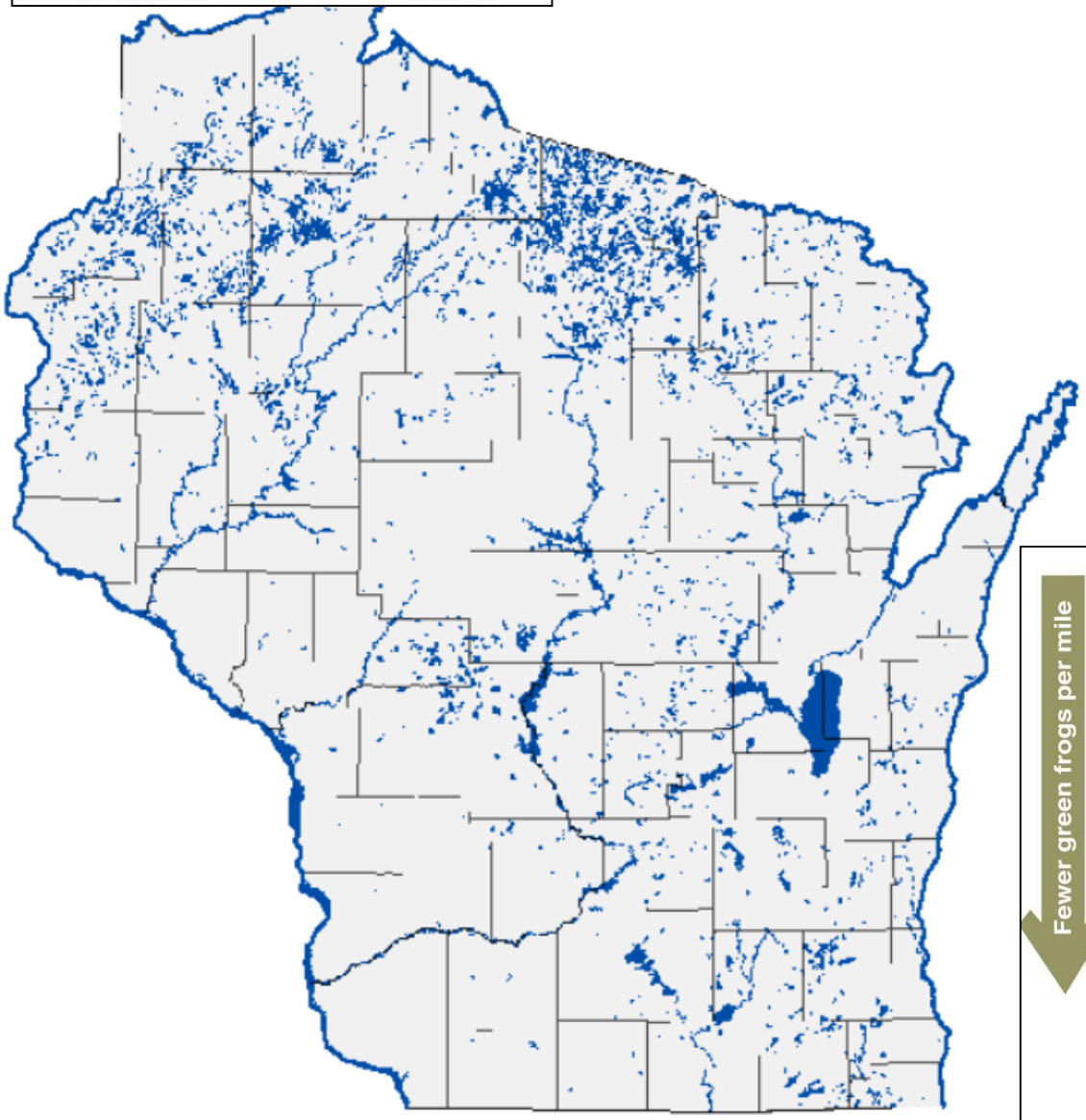
- www.healthylakeswi.com

CONTACTS			
Dave Ferris	Burnett County	(715) 349-2186	dferris@burnettcounty.org
Pat Goggin	UW-Ext Lakes	(715) 365-8943	pgoggin@uwsp.edu
Jane Malischke	WDNR	(715) 635-4062	jane.malischke@wi.gov
Tom Onofrey	Marquette County	(608) 267-3036	tonofrey@co.marquette.wi.us
Carroll Schaal	WDNR	(608) 261-6423	carroll.schaal@wi.gov
Shelly Thomsen	WDNR	(608) 266-0502	shelly.thomsen@wi.gov
Pamela Toshner	WDNR	(715) 635-4073	pamela.toshner@wi.gov

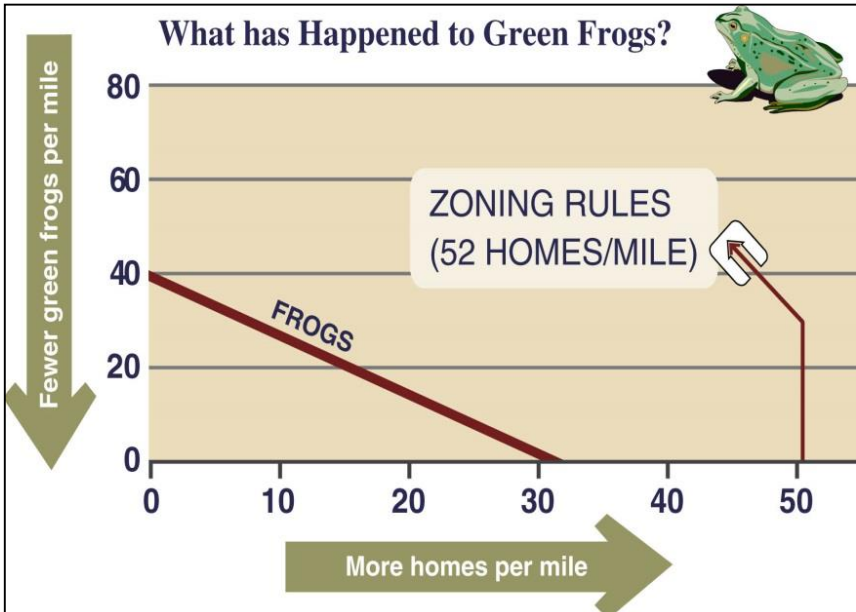
YOUR LOCAL LAKE BIOLOGIST OR ENVIRONMENTAL GRANTS SPECIALIST

Background


U.S. EPA National Lakes Assessment 2012
Percentage of Lakes in Each Condition Category
2012 Estimates and Change from 2007
Trophic State | Upper Midwest
Condition Category
2012 Percentage of Lakes
2007-12
Change in % Points
0% 20% 40% 60% 80% 100%
-60% -40% -20% 0% 20% 40% 60% 80%
Most Disturbed
6%
Eutrophic
34%
Mesotrophic
55%
Oligotrophic
5%
Not Assessed
No Observed Lakes
N/A
N/A
U.S. Environmental Protection Agency (USEPA). 2016. National Lakes Assessment 2012: A Collaborative Survey of Lakes in the United States. Interactive NLA Dashboard. https://nationallakesassessment.epa.gov/
* Reflects a statistically significant change at 95% between 2007 and 2012. Such changes are also indicated using darker colors.

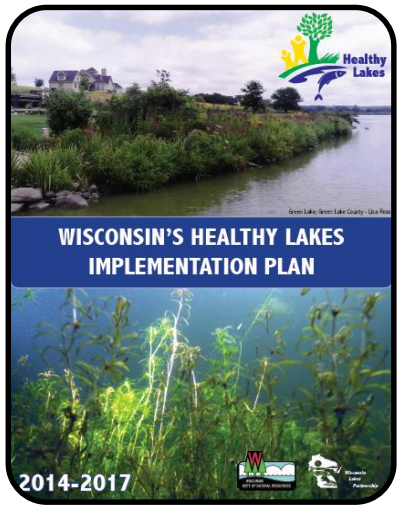


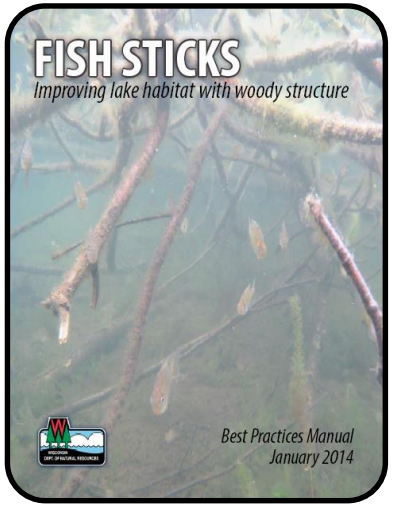
$2.3B


What has Happened to Green Frogs?
Fewer green frogs per mile
80
60
40
20
0
ZONING RULES
(52 HOMES/MILE)
FROGS
0
10
20
30
40
50
More homes per mile

Wisconsin's 2014-2017 Healthy Lakes Implementation Plan

Goal: protect and improve the health of Wisconsin lakes by increasing lakeshore property owner participation in habitat restoration and runoff and erosion control projects.





Statewide Plan

- Implementation focus

Fact Sheets

- 5 Best Practices
- Funding & Admin FAQs

Technical Guidance

- More project installation detail

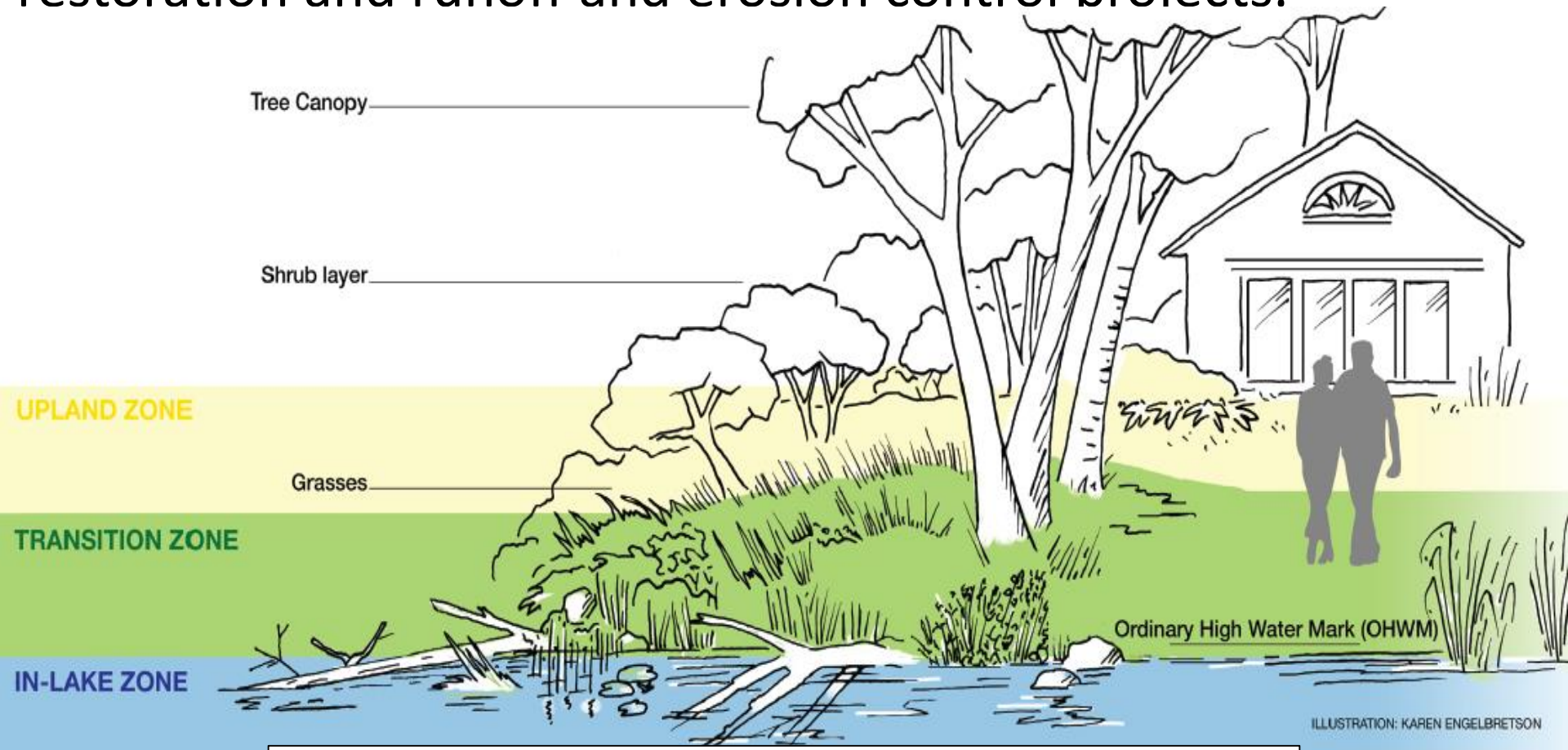
Wisconsin's 2014-2017 Healthy Lakes Implementation Plan

- Do it yourself
- Apply for grant funding
- Integrate into local planning efforts

Green Lake, Green Lake County (Lisa Reas)

Lean Government Charter

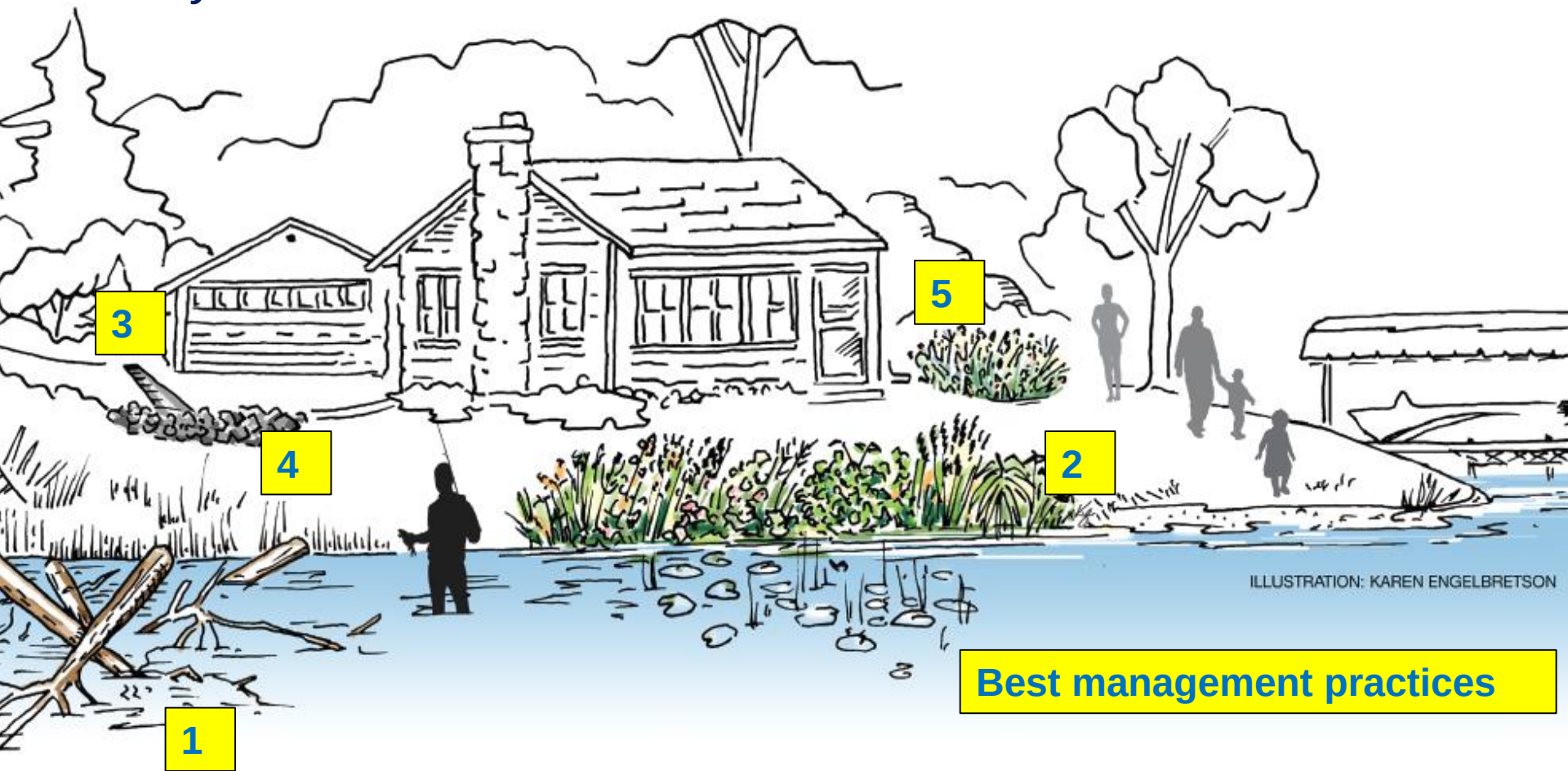
Goal: protect and improve the health of Wisconsin lakes by increasing lakeshore property owner participation in habitat restoration and runoff and erosion control projects.



Healthy Lakes project participation is voluntary.

Wisconsin's 2014-2017 Healthy Lakes Implementation Plan

- Apply for Healthy Lakes grant funding, or
- Integrate into local planning efforts, or
- Do it yourself.



Healthy Lakes isn't for everyone or everywhere.

Not intended for complex sites where engineering design/review needed

Managing Runoff - Design Tool

Seek Engineering Assistance When…

- Construction occurs on slopes >20%.
- More than 20,000 square feet are cleared.
- More than two acres drains to an eroded area.
- Severe gully erosion (at least one foot deep) is present.
- You are not comfortable implementing solutions on your own.

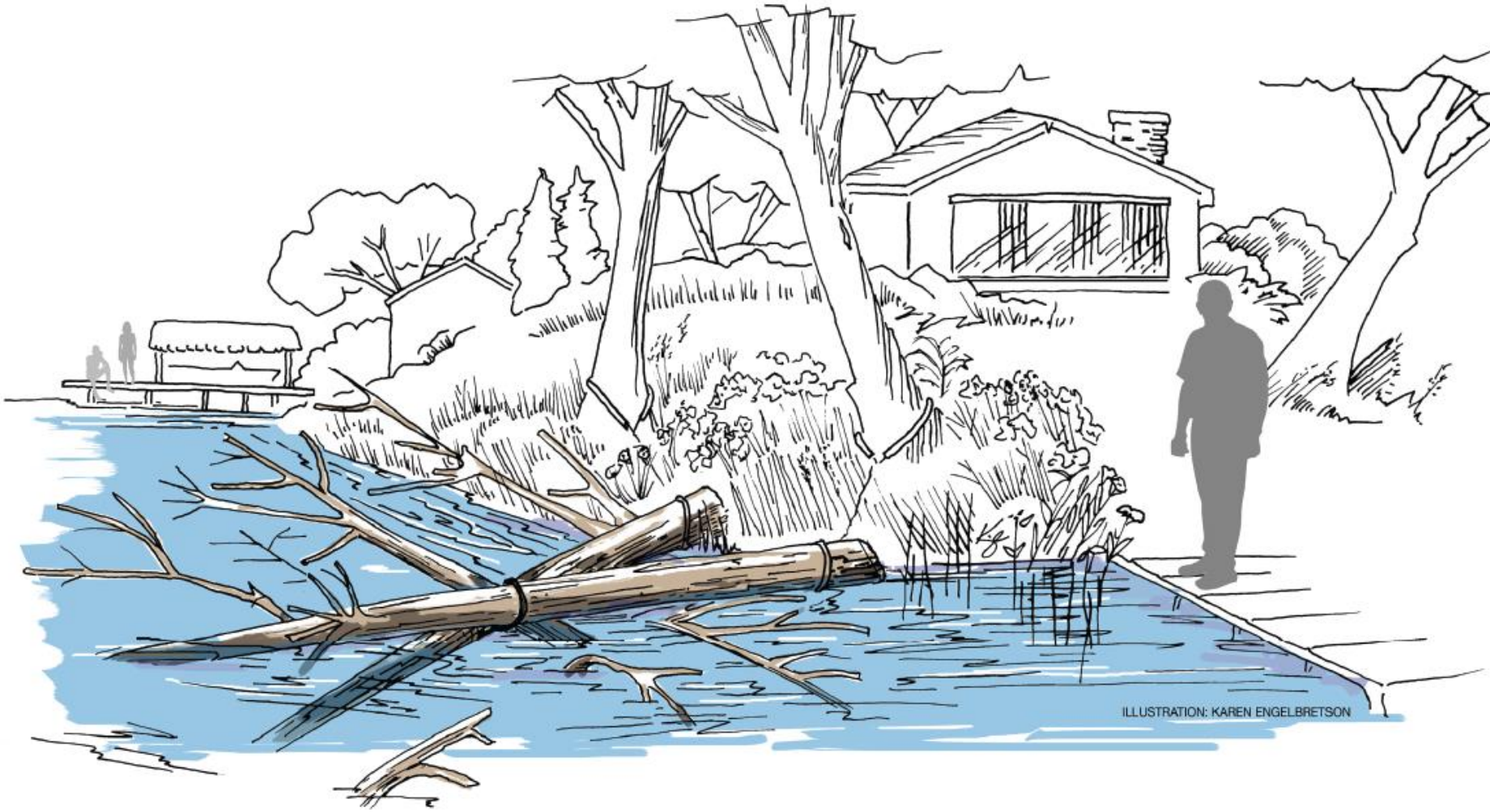
NOT for steep slopes

NOT for largely cleared parcels

NOT for >2 acres draining to eroded area

NOT for severe gullies

Practice #1: Fish Sticks



Practice #1: Fish Sticks

Pewaukee Lake, Waukesha County (Tom Koepp)

- Commit to no-mow or 350 ft^2 native planting at the base

Healthy Lakes

5 BEST PRACTICES

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

HABITAT STRUCTURE – FISH STICKS
General Permit Application Checklist
(11/2013)

GENERAL PERMIT APPLICATION INSTRUCTIONS

To apply for this General Permit, submit all of the required information listed below. A complete submittal with detailed plans will allow us to make a decision about your permit application. Permit processing review times begin when the application is received by the Department and is determined to be complete.

Please note that you are responsible for obtaining all necessary local (e.g. city, town, village or county) and U.S. Army Corps of Engineer permits or approvals in addition to any applicable state permits prior to commencing any work at the project site.

The Department offers the opportunity to apply electronically for all waterway and wetland permits. The Water Permits portal page can be found at http://dnr.wi.gov/Permits/Water/

Informational Requirements:

1. **Application form.** A complete, signed application form "Water Resources Application for Project Permits (WRAPP)" (Form# 3500-53) http://dnr.wi.gov/files/PDF/forms/3500/3500-053.pdf.
2. **Application fee**. Checks should be made payable to "Wisconsin DNR." A list of fees can be found at http://dnr.wi.gov/topic/waterways/Permits/PermitProcess.html.
3. **Site maps** which clearly illustrate the location and perimeter of the project site, and its relationship to nearby water resources (e.g. lakes, rivers, streams, wetlands), major landmarks and roads.
4. **Photographs** that clearly show the existing project area. Remember that too much snow cover or vegetation may obscure important details. If possible, have another person stand near the project area for size reference.
5. **Project plans and specifications** reflecting the General Permit Eligibility Standards as listed in the project-specific checklist below. If your project does not meet all of the eligibility standards, you will need to apply for an Individual Permit.
6. **Electronic documents.** If you are applying on paper, all documents listed above must also be submitted in an electronic format, either by enclosing a disk with your application materials, providing a link to an ftp site, or by other electronic methods. If possible, please create a separate file for each component of the application (i.e., forms, photos, maps, plans, etc.). Each file must be less than 15 megabytes in size, and the total size of the files combined must be less than 30 megabytes.

If you are applying electronically, you may be prompted for some of these items separately during the electronic submittal process.

Don't Forget!
Additional Requirement:

1. An applicant who applies for coverage under this general permit for the placement of fish sticks must **indicate** in the application materials **whether you will allow**, as part of your permit coverage, to let **new fish sticks sites on the same lake to be afforded coverage under your general permit at a later date** with no additional fee required.

HABITAT STRUCTURE – FISH STICKS

General Permit Application Checklist

http://dnr.wi.gov/topic/waterways/documents/PermitDocs/GPs/GP6-FishSticks.pdf

NEWSFLASH:

Permitted Fish Sticks structures are immune from civil lawsuits, thanks to recent legislation initiated by Rhinelander area lake groups!

Wisconsin Law Journal

DAVIS | KUEL attorney

NEWS » | CASE DIGESTS » | VERDICTS & SETTLEMENTS » | JUDGES DIRECTORY | COURT CA

Home / Legal News / Walker signs bill providing immunity for 'fish sticks' projects

Walker signs bill providing immunity for 'fish sticks' projects

By: Dan Shaw, dan.shaw@wislawjournal.com March 3, 2016 5:27 pm

A law Gov. Scott Walker signed this week provides immunity from civil liability for damage caused by structures used to protect and cultivate fish and wildlife in waterways and wetlands.

Practice #2: 350 ft^2 Native Plantings

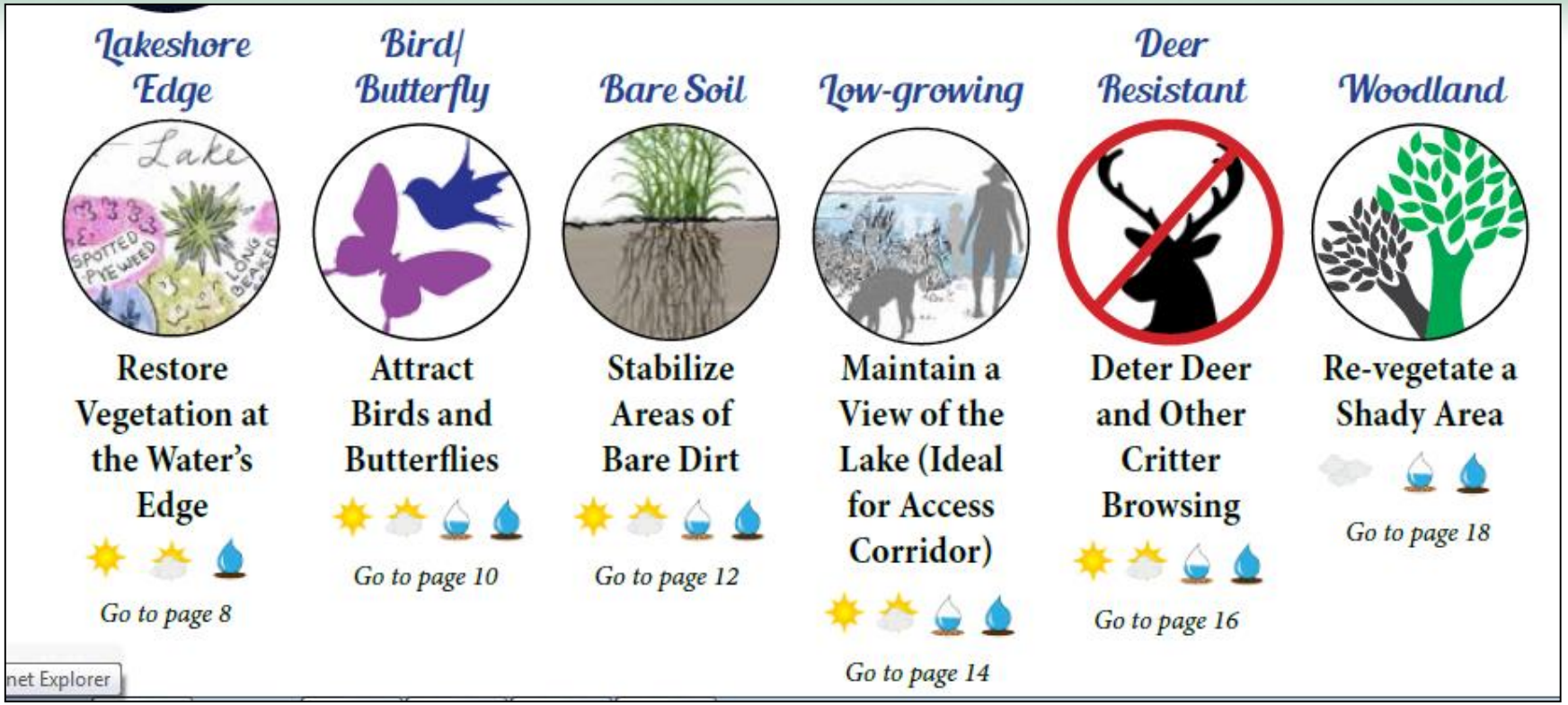
(Robert Korth)

- 350 contiguous ft^2 at least 10 feet wide
- One 350 ft^2 native planting per property per year

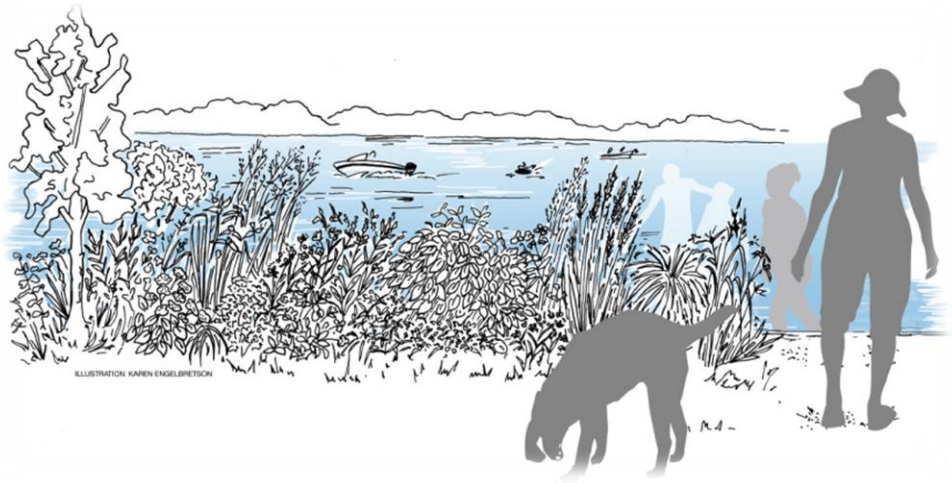
Healthy Lakes

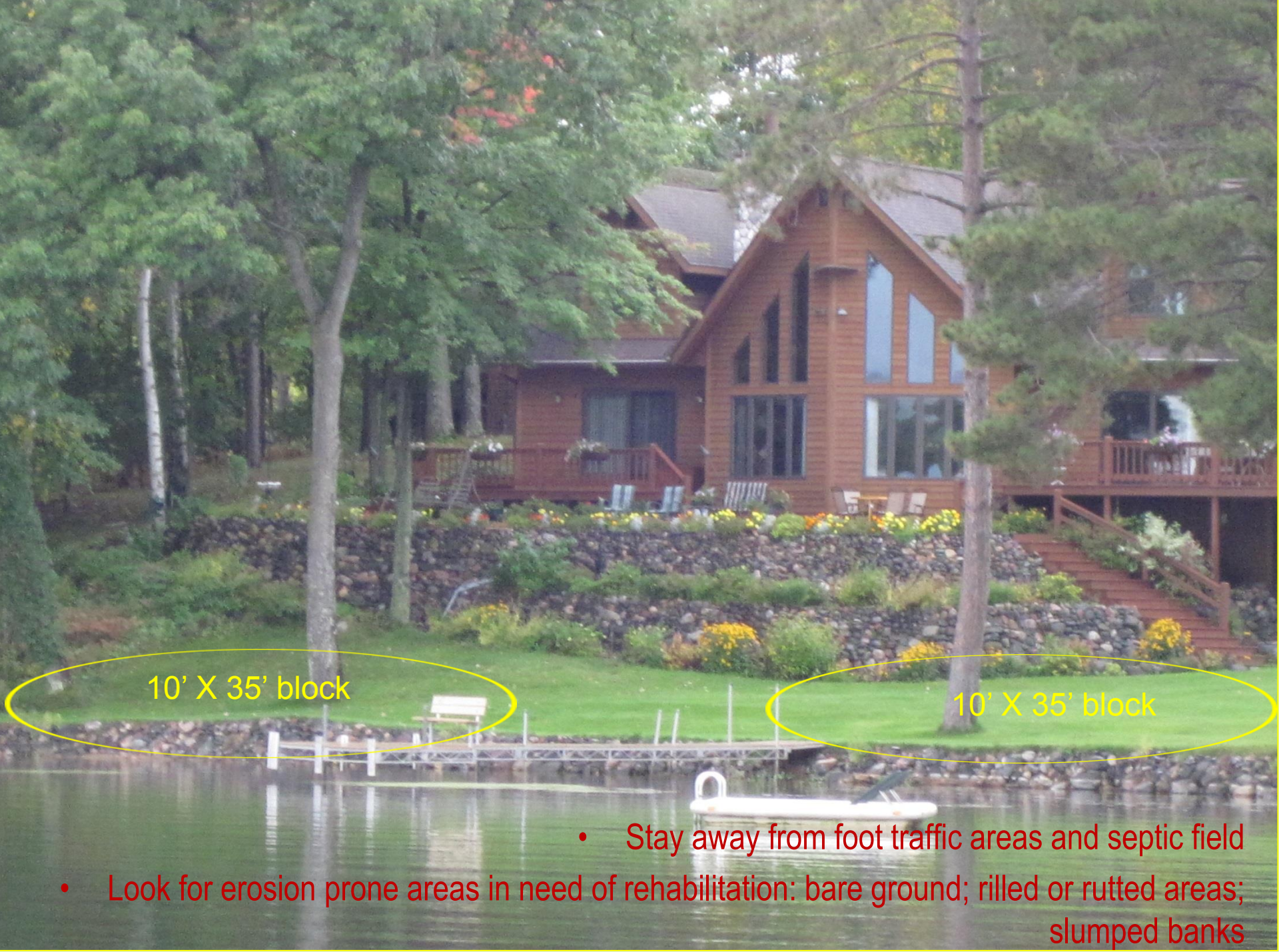
Village of Frederic, Coon Lake, Polk County

Beaver Dam Lake, Dodge County



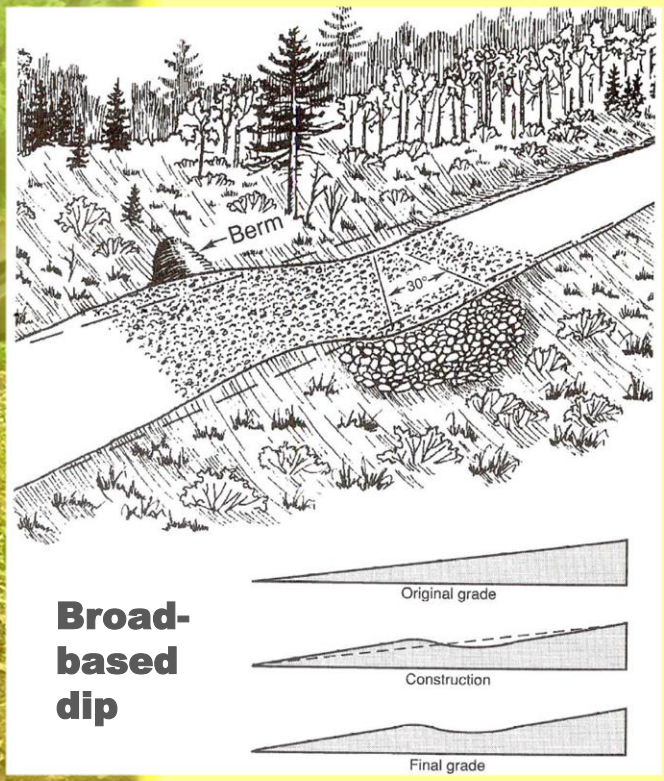
Consult the *350ft² Native Planting Guidance* on our Healthy Lakes web pages for siting ideas, planning and design help, and ***to choose the best prescribed option for you and your property.***

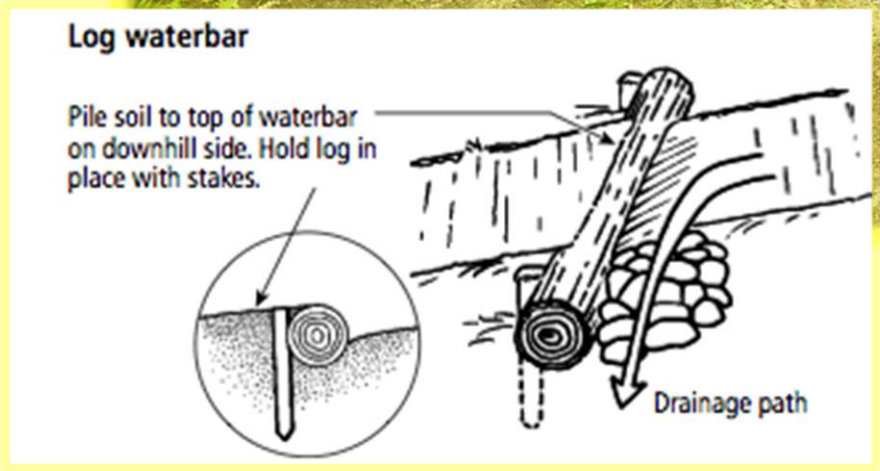




- Stay away from foot traffic areas and septic field
- Look for erosion prone areas in need of rehabilitation: bare ground; rilled or rutted areas; slumped banks

Practice #3: Diversion

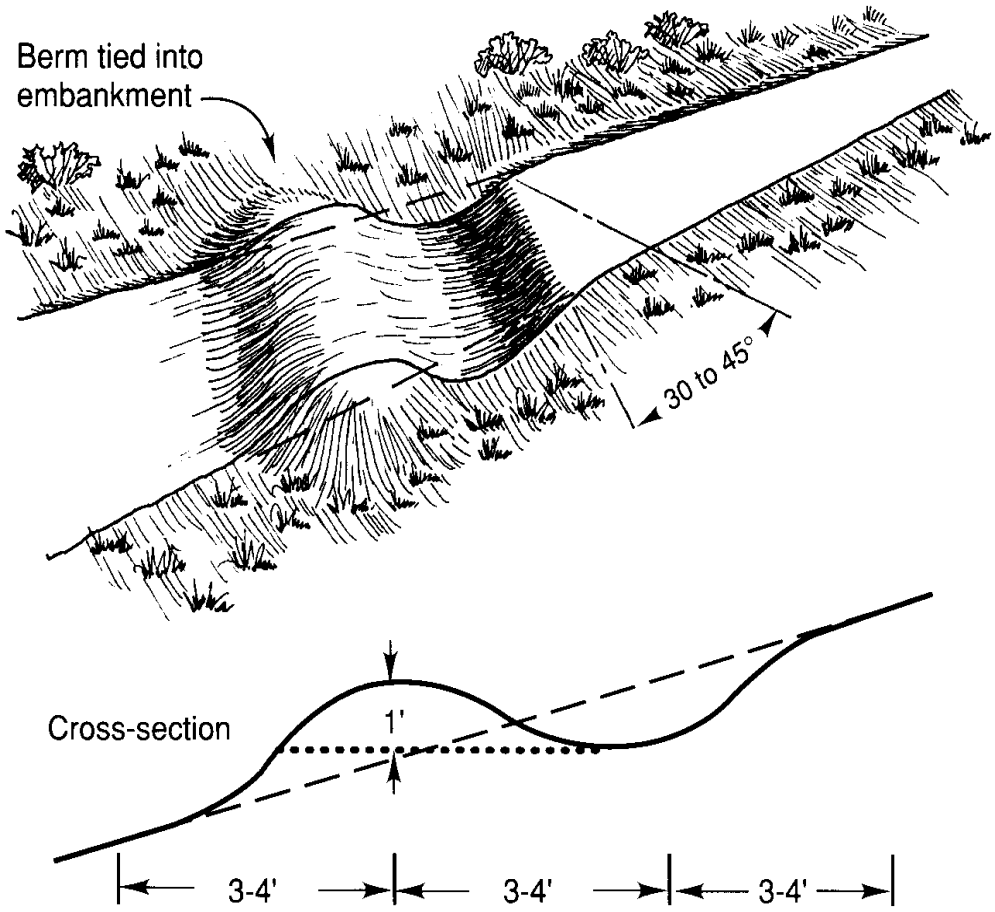




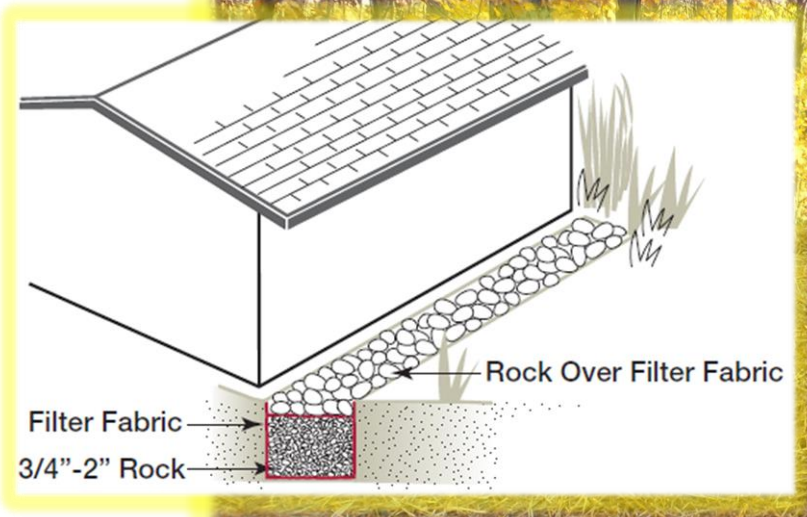
(http://awwatersheds.org/)

Pathway and Driveway Diversions

- Broad Dip
- Water Bars

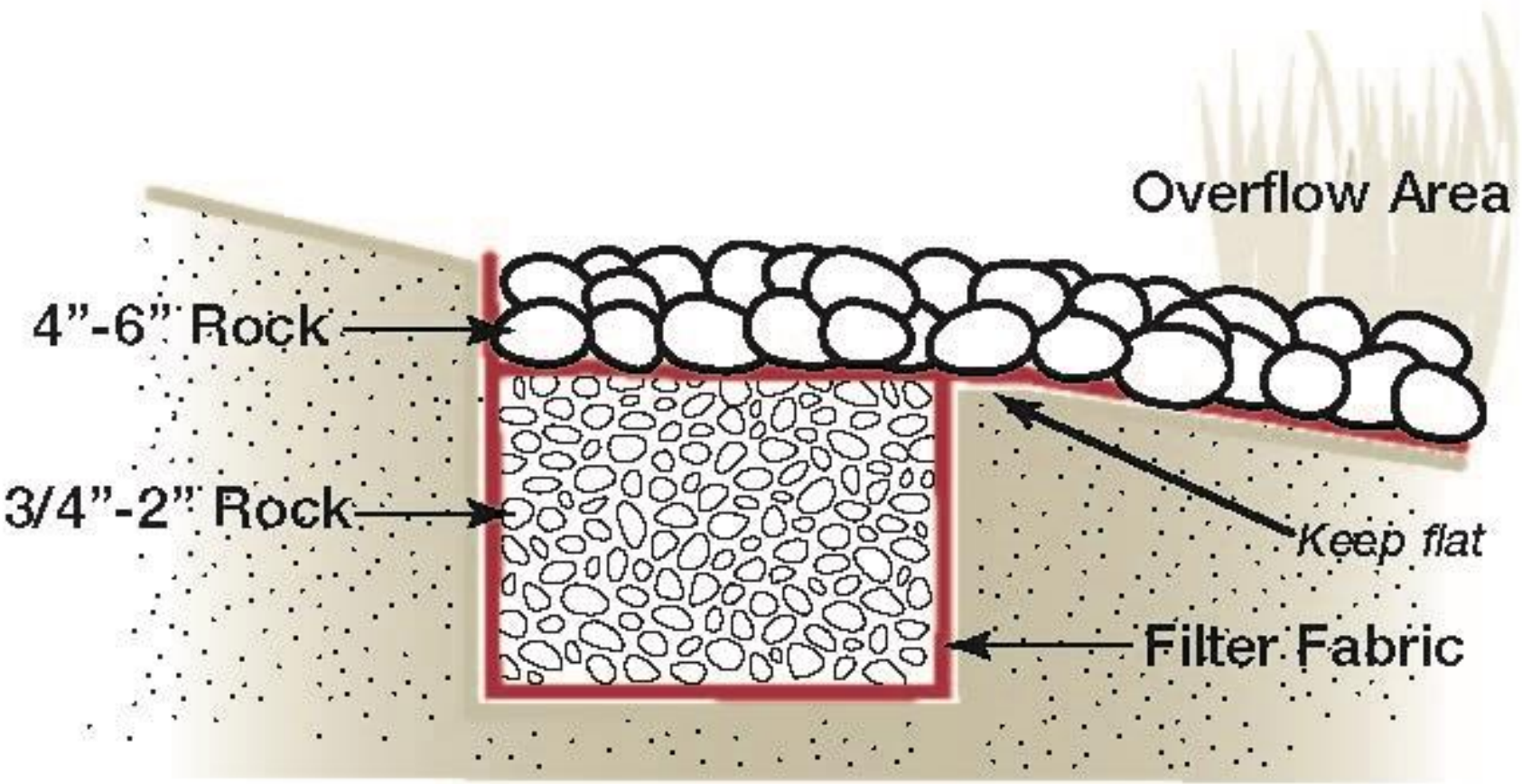


Practice #4: Rock Infiltration



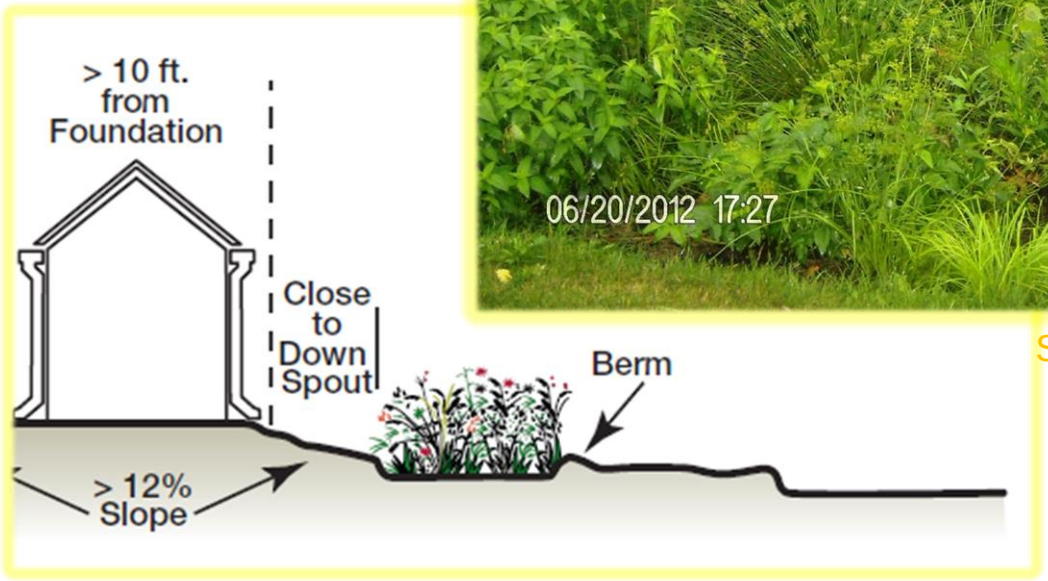
Deer Lake, Polk County (Cheryl Clemens)

5 BEST PRACTICES

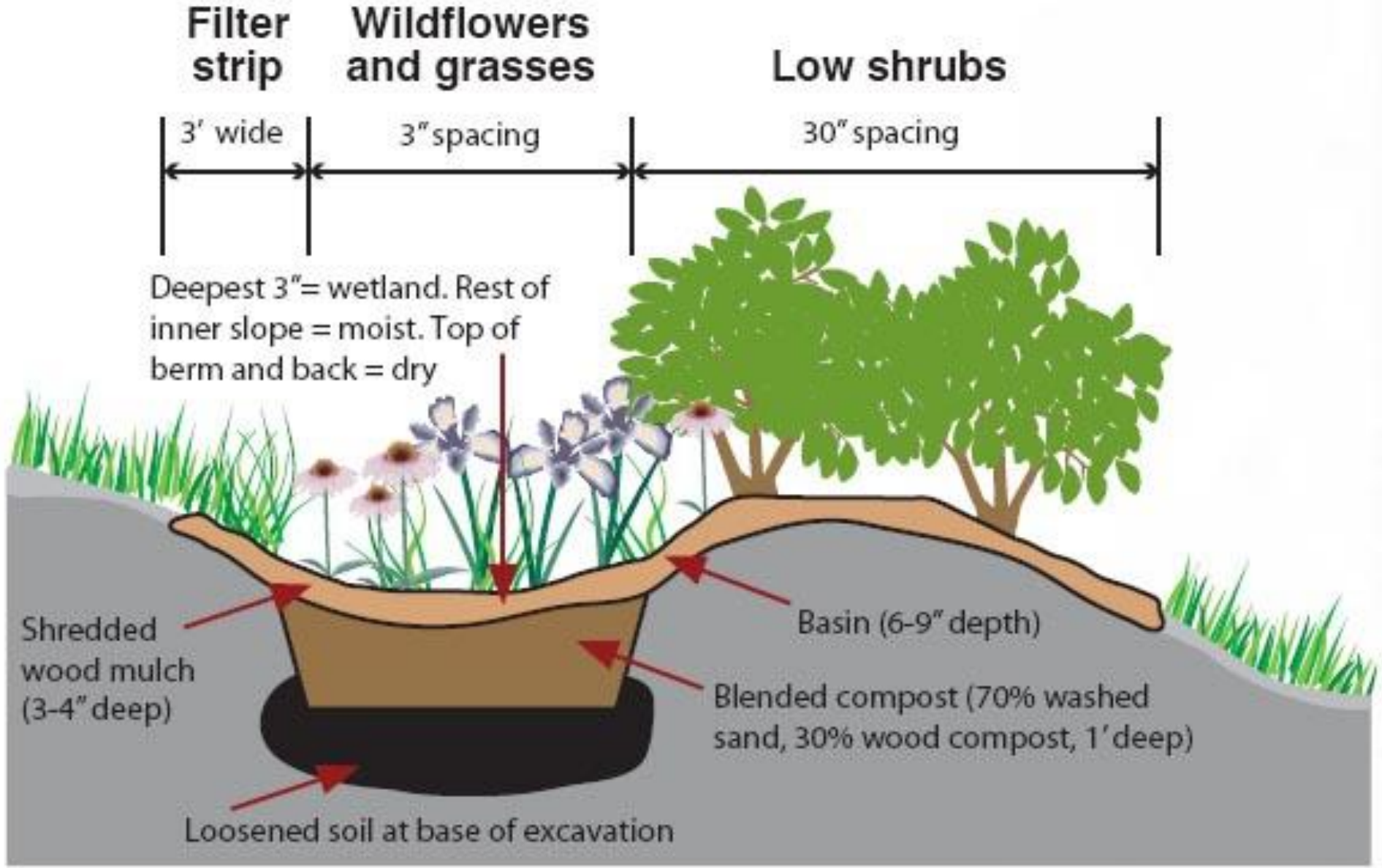

Overflow Area
4”-6” Rock
3/4”-2” Rock
Keep flat
Filter Fabric

Practice #5: Rain Garden

Shell Lake, Washburn County (Brent Edlin)



Practice #5: Rain garden



Nagawicka Lake, Waukesha County

Healthy Lakes Grants

- $1000/best practice funding cap
- Eligible sponsor applies on behalf of landowners with $25,000 grant award cap (multiple best practices)
- 2-year grant agreement and 10-year individual landowner contract with maintenance requirements

Stan, 2016 Governor's Fishing Opener on Minong Flowage

Healthy Lakes

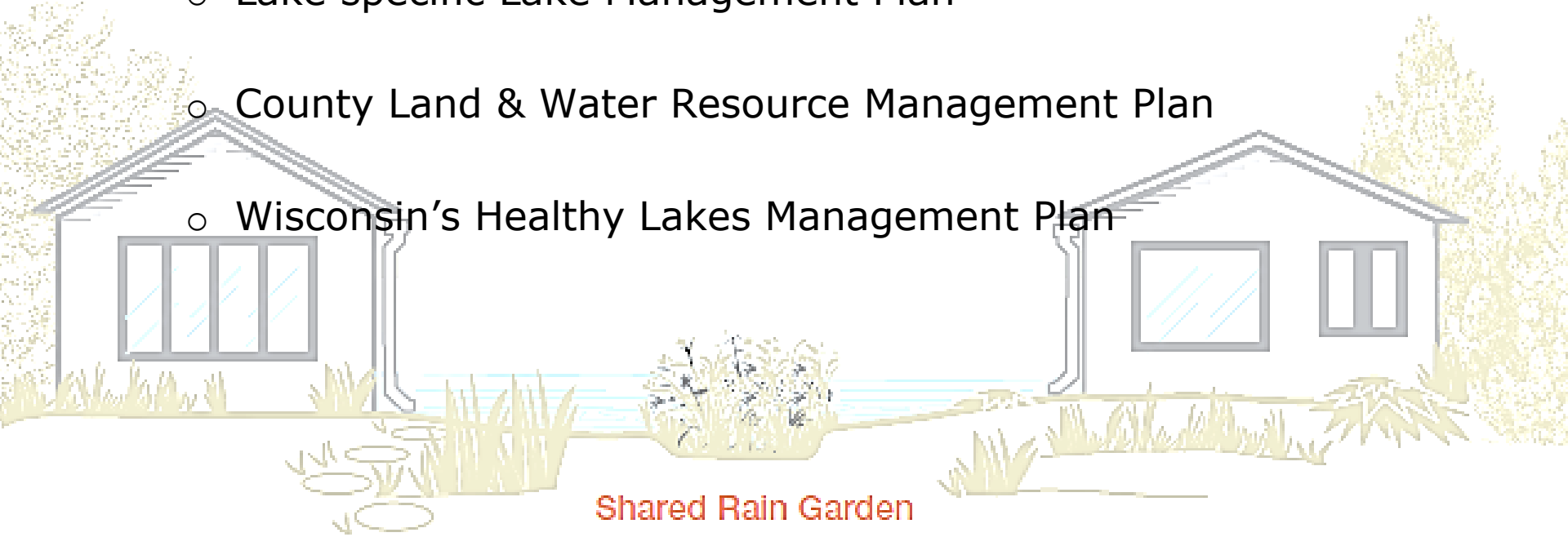
healthylakeswi.com

Healthy Lakes Grants

- Annual deadline February 1
  - 75/25% state/sponsor match – reimbursement grant
  - Eligible sponsors, including qualified lake associations, lake districts, counties and other local government units, may apply on behalf of multiple landowners
  - Standard **2-year** grant agreement
- Each best practice capped at $1000 state share
- 10-year contract with standard operation & maintenance details described in grant agreement
  - Grant sponsor develops and administers contract that landowner signs
- Self-reporting or site visits on 10% of projects annually by Healthy Lakes team members

Lake Protection Grant
Lake Management Plan Implementation Category

- **Purpose of grant category – provide funds for implementation of Dept. approved recommendations in a plan to improve lakes & lake ecosystems**
  - Lake specific Lake Management Plan
  - County Land & Water Resource Management Plan
  - Wisconsin's Healthy Lakes Management Plan



Save... Print... Clear Data

State of Wisconsin
Department of Natural Resources
Bureau of Community Financial Assistance (CF/2)
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Surface Water Grant Application
Lake Management Planning, Lake Protection & Classification, River Protection, River Planning, Aquatic Invasive Species (AIS) Control

Form 8700-284 (R 9/14/16) Page 1 of 5

General application instructions for sections 1-7

Notice: Use of this form is required by the Department of Natural Resources for any application filed pursuant to chs. NR 190,191,195 & 198, Wis. Adm. Code. Personal Information collected on this form, will be used for administrative purpose and may be provided to requesters to the extent required by Wisconsin's Open Records Laws [ss.19.31–19.39 Wis. Stats.] **To be considered, applications must either be submitted electronically by the December 10th or February 1st due date or paper applications must be postmarked no later than by the December 10th or February 1st due date.**

Section 1: Application Type (check one)

Application Deadlines:

DECEMBER 10

Lake Management Planning Grant:
- ◯ Large Scale Planning
- ◯ Small Scale Planning

Lake Protection Grant:
- ◯ Lake Classification & Ordinance Development

Aquatic Invasive Species Grant:
- ◯ Education, Prevention & Planning
- ◯ Clean Boats Clean Water Use Form 8700-337

River Protection Grant:
- ◯ River Planning

FEBRUARY 1

Lake Protection Grant:
- ◯ Land/Easement Acquisition
- ◯ Wetland & Shoreline Habitat Restoration
- ◯ Lake Management Plan Implementation
- ◯ Healthy Lakes Project

Aquatic Invasive Species Grant:
- ◯ Established Population Control

Rivers Protection Grant:
- ◯ River Management
- ◯ Land/Easement Acquisition

YEAR-ROUND:

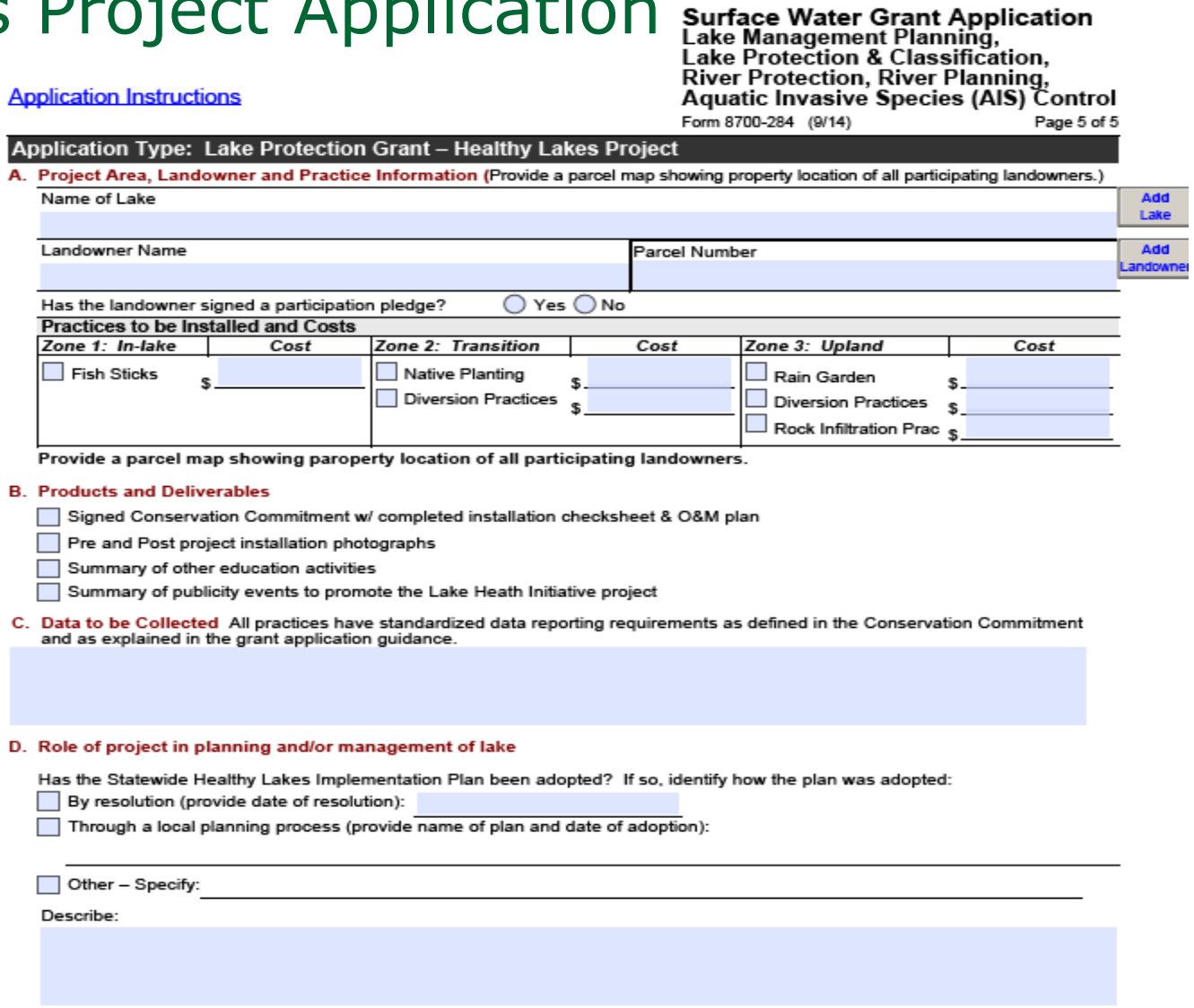
Aquatic Invasive Species Grants:
- ◯ Early Detection & Response
- ◯ Maintenance & Containment Use Form 8700-323

Section 2: Applicant Information

Project Title				
Applicant Name (Organization)		Organization Type		
Authorized Representative (AR) Name		AR Title		
AR Address		City	State	ZIP Code
AR Phone Number (include area code)	AR Ext.	E-mail Address		

Lake Management Plan Implementation Healthy Lakes Project Application

Changing!



Application Instructions

Surface Water Grant Application
Lake Management Planning,
Lake Protection & Classification,
River Protection, River Planning,
Aquatic Invasive Species (AIS) Control

Form 8700-284 (9/14) Page 5 of 5

Application Type: Lake Protection Grant – Healthy Lakes Project

A. Project Area, Landowner and Practice Information (Provide a parcel map showing property location of all participating landowners.)

Name of Lake — Add Lake

Landowner Name | Parcel Number — Add Landowner

Has the landowner signed a participation pledge? ◯ Yes ◯ No

Practices to be Installed and Costs

Zone 1: In-lake	*Cost*	*Zone 2: Transition*	*Cost*	*Zone 3: Upland*	*Cost*
☐ Fish Sticks	$	☐ Native Planting	$	☐ Rain Garden	$
		☐ Diversion Practices	$	☐ Diversion Practices	$
				☐ Rock Infiltration Prac	$

Provide a parcel map showing paroperty location of all participating landowners.

B. Products and Deliverables

- ☐ Signed Conservation Commitment w/ completed installation checksheet & O&M plan
- ☐ Pre and Post project installation photographs
- ☐ Summary of other education activities
- ☐ Summary of publicity events to promote the Lake Heath Initiative project

C. Data to be Collected All practices have standardized data reporting requirements as defined in the Conservation Commitment and as explained in the grant application guidance.

D. Role of project in planning and/or management of lake

Has the Statewide Healthy Lakes Implementation Plan been adopted? If so, identify how the plan was adopted:

- ☐ By resolution (provide date of resolution):
- ☐ Through a local planning process (provide name of plan and date of adoption):
- ☐ Other – Specify:

Describe:

Participation Pledge *(optional)*

HEALTHY LAKES PARTICIPATION PLEDGE

I/we **Mr. and Mrs. Lake-Lover** pledge to participate in Wisconsin's Healthy Lakes initiative. More property owners implementing the suggested best practices over time may eventually add up to significant success and healthier lakes for current and future generations.

I/We pledge to work with DNR Lake Protection Grant sponsor **Healthy Lakes Association** to install the following best practice(s) to restore fish and wildlife lakeshore habitat and/or prevent storm water runoff and erosion. (check practices to be installed on the property)

- ☐ Fish Sticks
- ☐ 350 square feet native plantings
- ☐ Diversion practice(s)
- ☐ Infiltration practice(s)
- ☐ Rain garden

I/We understand that by signing this Pledge I/we am/are indicating a strong interest to follow through with a Healthy Lakes project on my/our property, but this is not a legal requirement to do so.

Describe Personal Participation Goal (optional):
_____
_____
_____
_____

Name: **John and Jane Lake-lover** (please print)

Phone #: **(123) – 456-7890**

E-mail address: **lovinglakes@yoohoo.com**

Signed: *John Lake-Lover* and *Jane Lake-Lover*

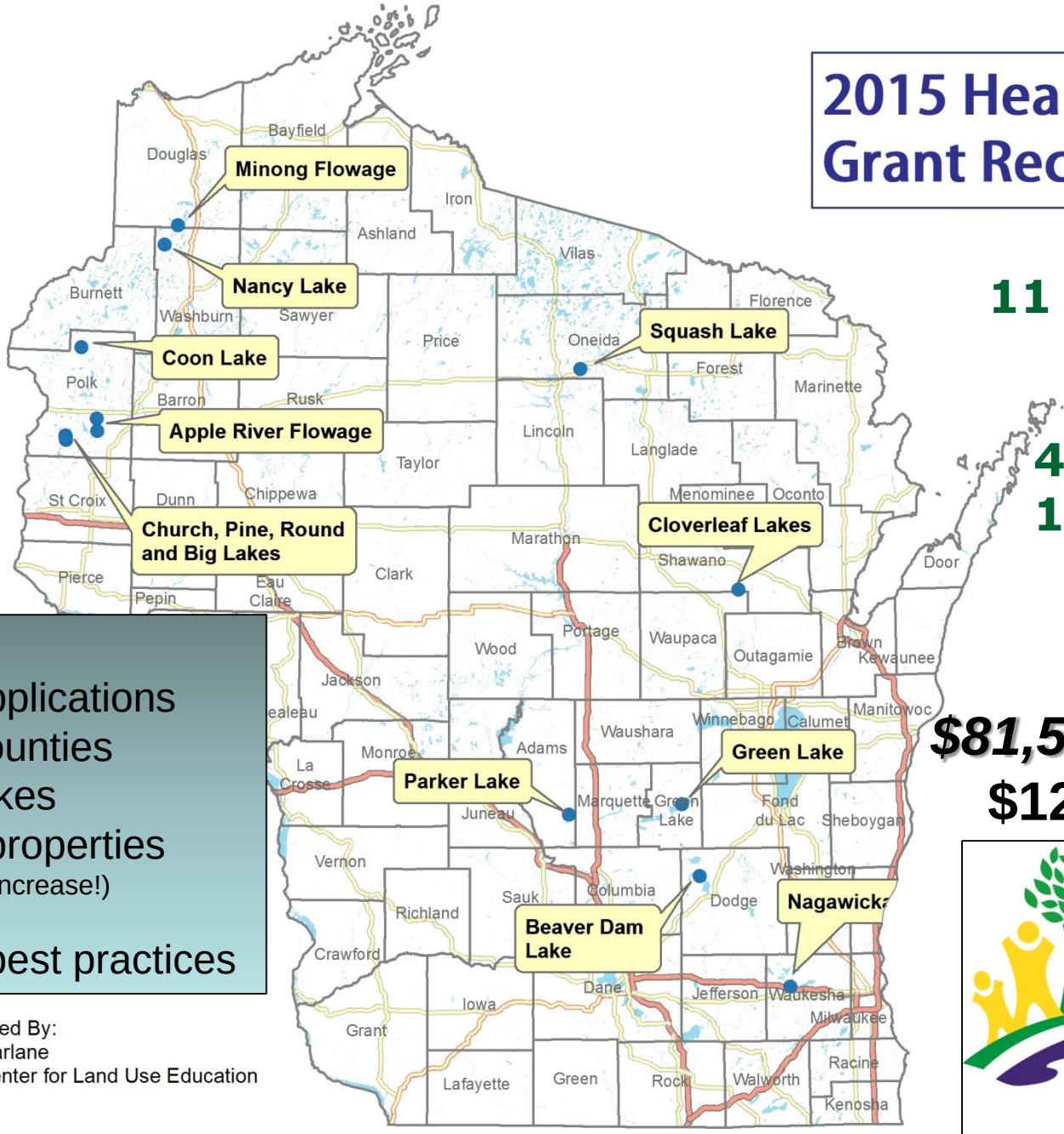
Date: **01/01/2015**

EXAMPLE

Grant Review/Ranking

- **LPT 191.07 <u>Priorities</u> (4) The department *may* consider the following factors when developing a project priority list:**
- The degree to which the project provides for the protection or improvement of water quality
  - E.g. ORW/ERW, impaired?
- The degree to which the project provides for protection or improvement of other aspects of the natural ecosystem such as fish and wildlife habitat, native vegetation or natural beauty
  - E. g. sites adjacent to sensitive area, support from fisheries, wildlife, etc.
- The availability of public access to, and public use of, the lake.
  - E. g. public property or demonstration sites
- The degree to which the proposed project complements other lake and watershed management efforts including local comprehensive plans and the level of support from other affected management units or organizations
  - E. g. partner support, other plans
- The likelihood of the project to successfully meet the stated project objectives and 2-year timeline and the degree of detail in the application
  - E. g. landowner commitment, neighbors participating together, costs, baseline monitoring/inventory completed, compliance monitoring/maintenance assistance

2015 Healthy Lakes Grant Recipients



11 applications
8 counties
15 lakes
48 properties
100 practices

2016
16 applications
12 counties
27 lakes
109 properties
(127% increase!)

143 best practices

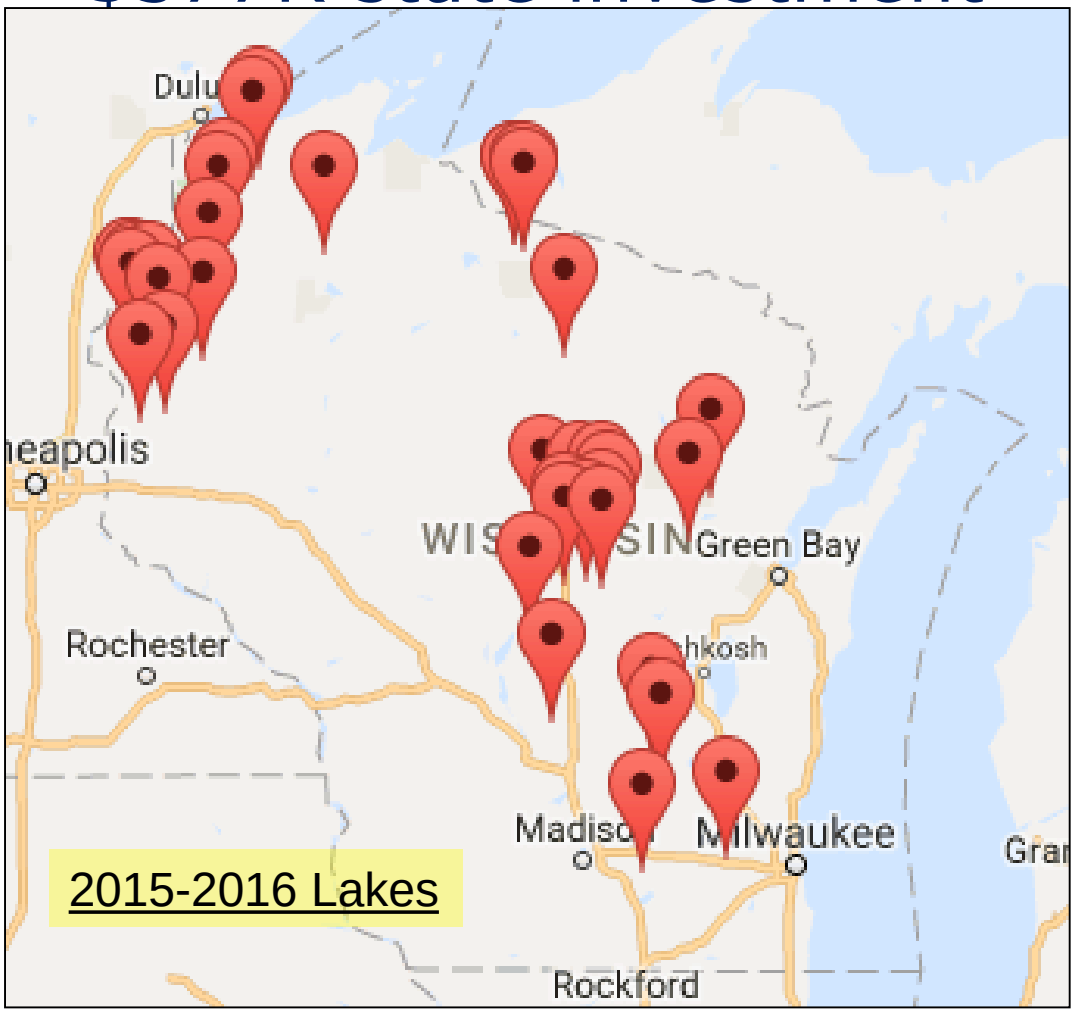
$81,540.54 state
$126,667 total

Map Crafted By:
Dan McFarlane
UWSP Center for Land Use Education

Healthy Lakes

2015-2017: 407 Best Practices, 267 Properties, 56 Lakes, 21 Counties

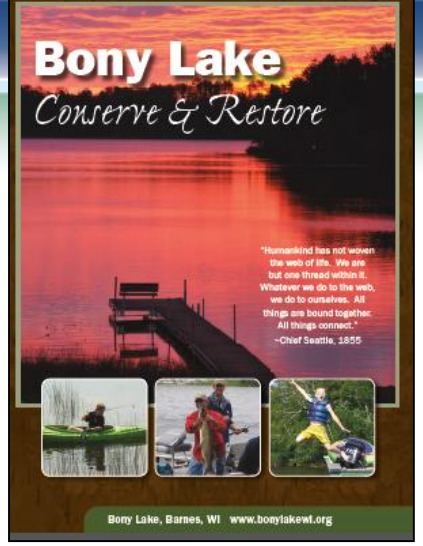
$377K state investment

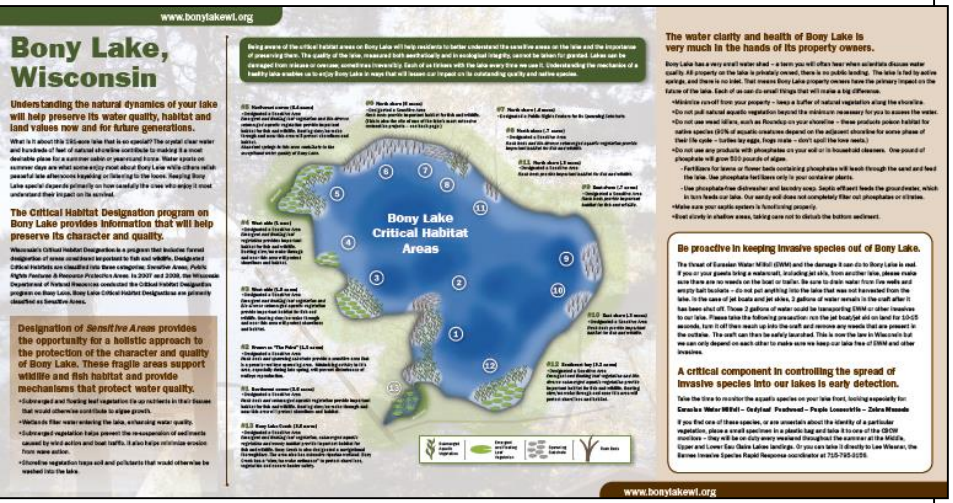


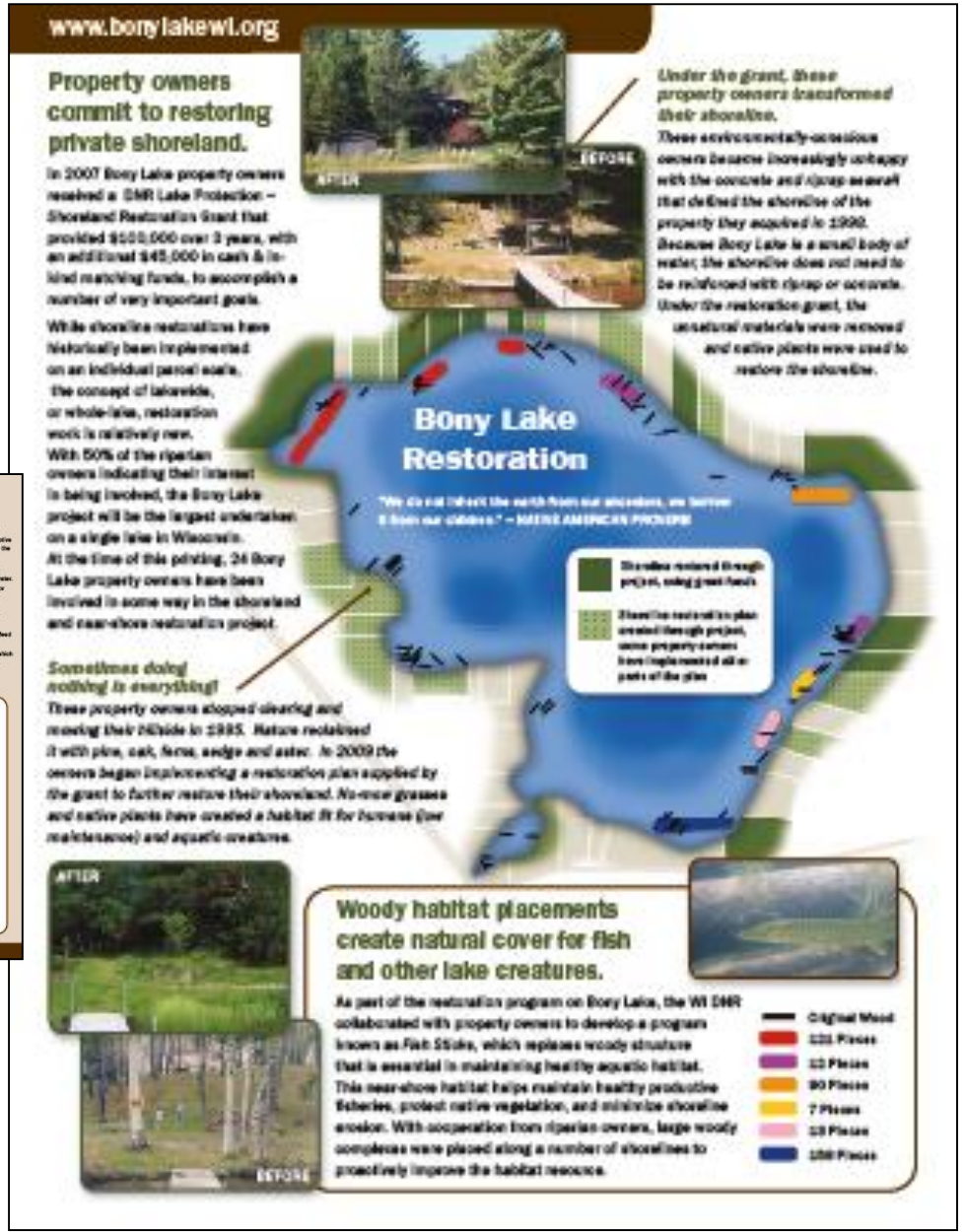
RESOURCES

- www.healthylakeswi.com
- Review pdf links on your handout

Bony Lake fish sticks story







Lean government update handout

RESULTS