



Lakeshore Landscaping
(Shorescaping) for
Tully Lake in Onondaga County
2018, 2019, 2020

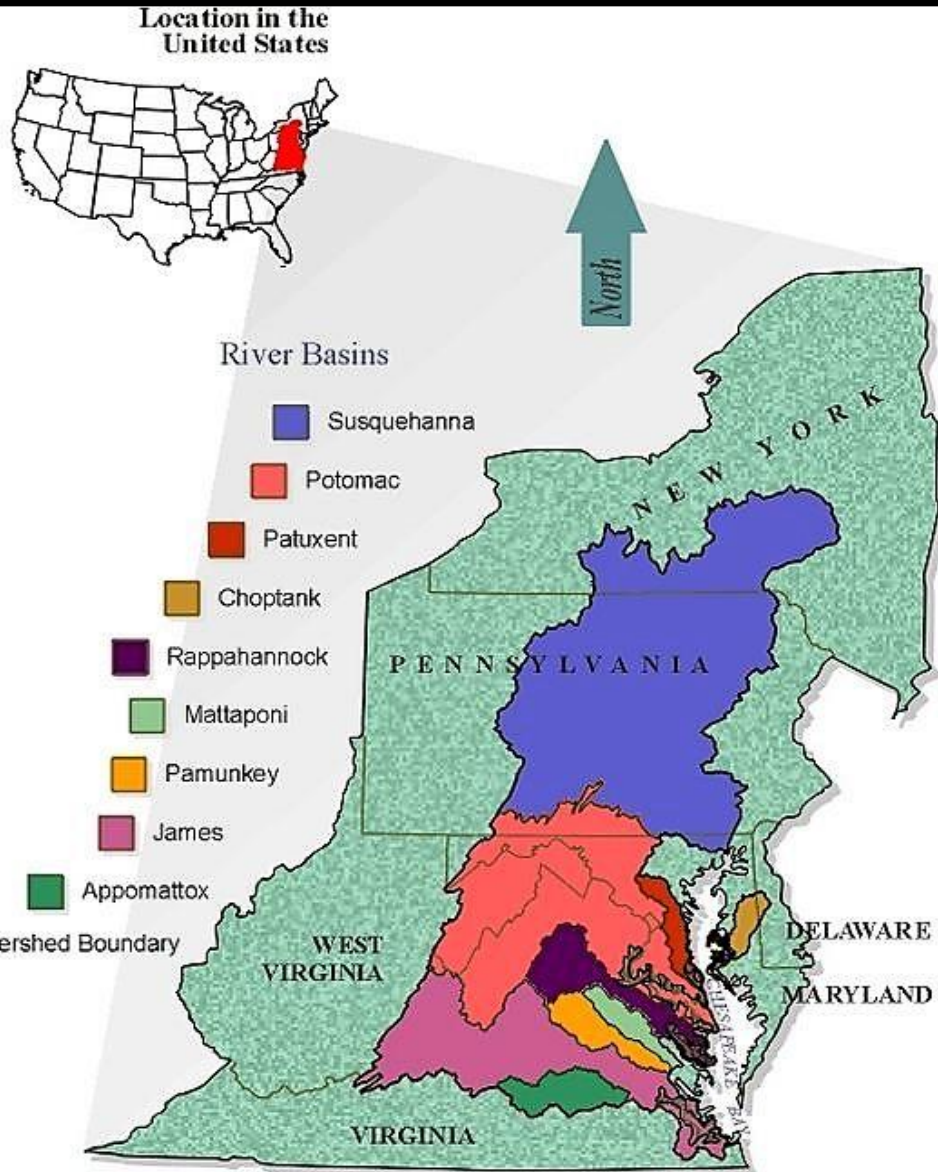
Welcome

- Please **MUTE YOUR MICROPHONE.**
- Please **FEEL FREE TO ASK QUESTIONS IN THE CHAT BOX.**
- **Q&A** will occur at the **end of the session via chat box or by raising your hand.**
- Please complete a brief survey. The link will be emailed to you at the conclusion of the session.
- This sharing session will be recorded.

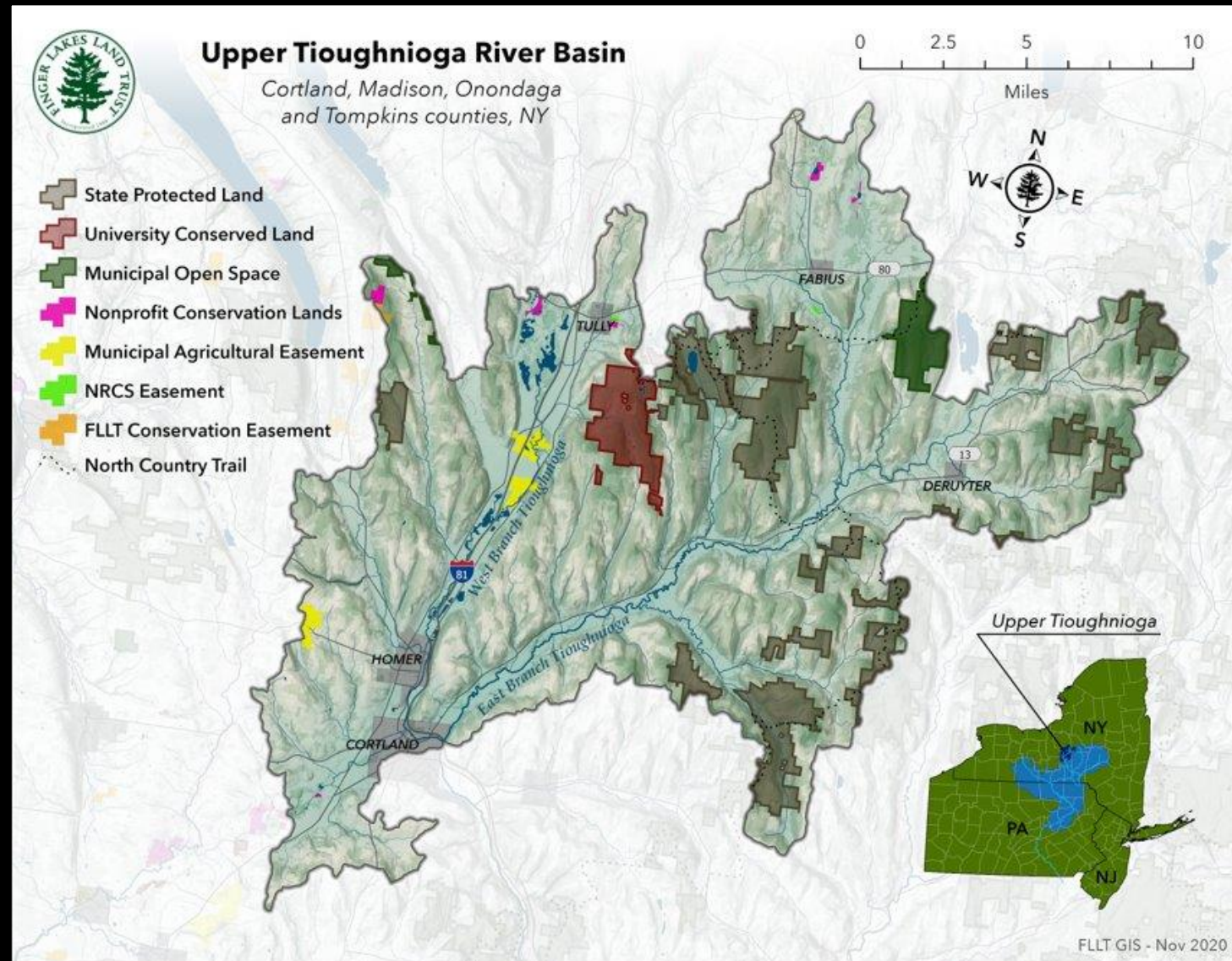
Meet your Presenters:

- Colleen Zawadzki, President/Tully Lake Property Owners Association
- Tarki Heath, President/ Cortland-Onondaga Federation of Kettle Lakes Association
- Teresa Link, Conservation District Technician and ISA Certified Arborist/Onondaga County Soil and Water Conservation District

The Kettle Lakes



Our Place - Hydrologically



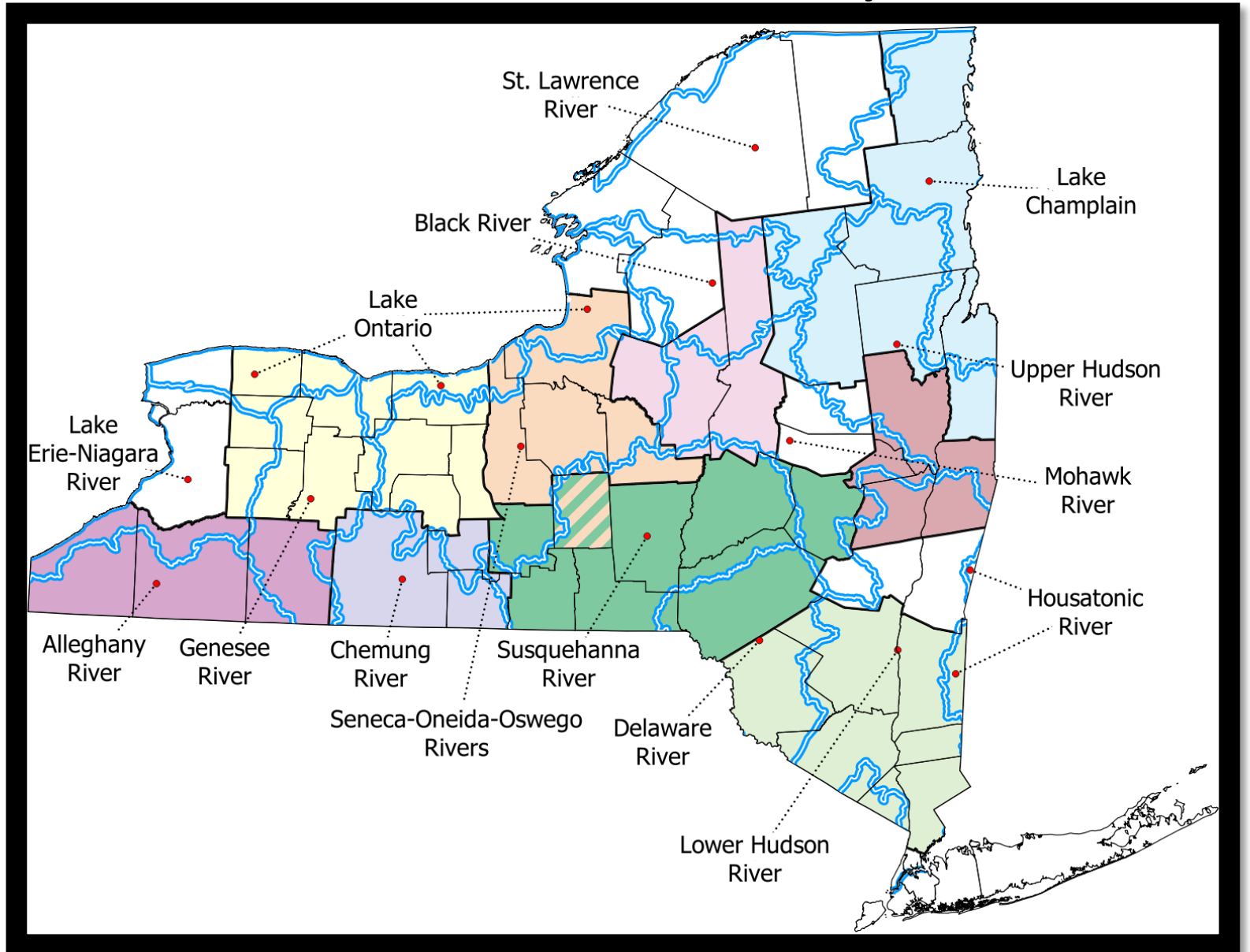
The Kettle Lakes

Our Place – Politically

North end of Tully Lake and all of Crooked Lake in Onondaga County & The South end of Tully Lake, Song Lake and Upper Little York Lake in Cortland County

With Municipalities that include Tully Preble Homer Little York

Resource from the Finger Lakes PRISM, CNY-RPDB, NYS DEC Region 7, EPA Region 2



Four Kettle Lakes - Working Together

Cortland-Onondaga Federation of Kettle Lakes

Associations works to find solutions for common and individual lake issues through

- Education & outreach
 - Collaboration
- Mutual support



Shared Concerns

Threats from a growing number of aquatic invasive species

Climate changes-warming waters and intense storms

Overabundant growth of plants and/or algae

The proliferation of harmful algal blooms (HABs)

Storm runoff from development and agriculture

Education about and practical implementation of "Best Management Practices"

Challenges of over development and Keyholing, where multiple properties use one lake access point

Water quality issues having to do with dissolved oxygen, nutrients and/or water clarity

Development of undesirable infrastructure, such as gas pipelines or propane storage facilities

Crooked Lake



Tully Lake



Little York Lake



Song Lake



**Tully Lake
Watershed Implementation Plan**
Towns of Tully & Preble, Onondaga & Cortland Counties, New
York

Prepared for:

Cortland-Onondaga Federation of Kettle Lake Associations
Attn: Ms. Tarki Heath
1900 Rittenhouse Square
Tully, New York 13159

Prepared by:

Princeton Hydro, LLC

203 Exton Commons
Exton, Pennsylvania 19341
(P) 610.524.4220
(F) 610.524.9434
www.princetonhydro.com

*Offices in New Jersey, Pennsylvania, Maryland
and Connecticut*

December 2017

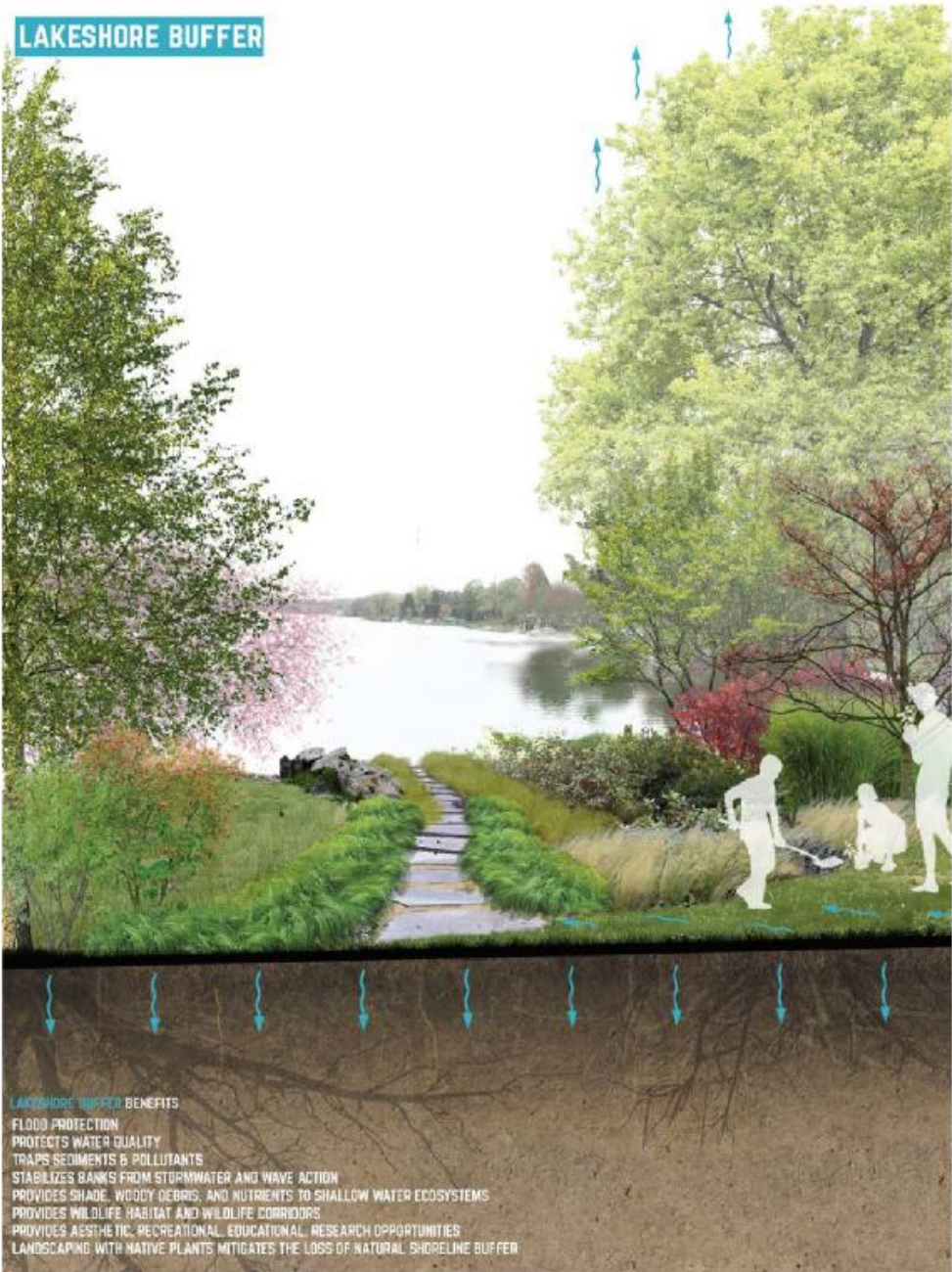
*Funding: This report was funded by the National
Fish and Wildlife Foundation Chesapeake Bay
Technical Grants Program for Stormwater Management*



What a 501(c)3 Can Do

Watershed Implementation Plans

These “WIPs” were prepared by Princeton Hydro, as part of a **National Fish & Wildlife Foundation Technical Capacity Grant for Chesapeake Bay Stewardship**, focusing on phosphorus reduction through stormwater management.



Source: Mr. Josue Cruz

Gray and Green Recommendations Including:

- Bioretention Basins
- Constructed Detention Basins
- Constructed Baffle Boxes
- Boat Cleaning Stations
- Culvert Mitigation
 - Catch Basins
- Steppool Conveyences
- Infiltration Basins
 - Biswales
 - Raingardens
- Stream Stabalition
- Riparian Buffers
- Lakeshore Buffers (Shorescapes)

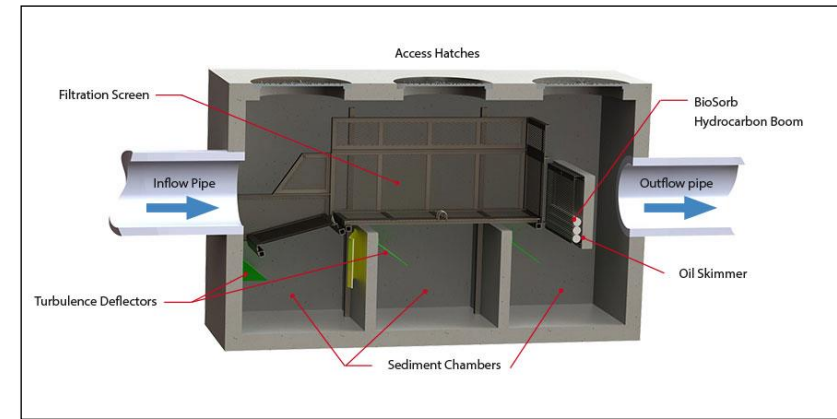


Figure 5.6: Three-Chambered Baffle Box
Source: Suntree Technologies

WE ALL LIVE DOWNSTREAM!
Plant a Buffer on your property and help save the Bay.

The Nature Conservancy
JUNIATA COUNTY CONSERVATION DISTRICT

Can You Spot these Trees and Shrubs?

- Blackgum
- Sweetgum
- Swamp White Oak
- American Basswood
- Redbud
- Crab Apple
- Persimmon
- Serviceberry
- Flowering Dogwood
- White Oak

Figure 5.5: Riparian Buffer Source: PACD

Landowner Technical Assistance and Financial Support

2017- Collaboration

- Syracuse University - Environmental Finance Center
- Cortland-Onondaga Federation of Kettle Lake Associations
- Princeton Hydro LLC
- Cortland County Soil & Water Cons. District
- Onondaga County Soil & Water Cons. District
 - Landowners and residents in all watersheds



Watershed residents expressed interest and enthusiasm for shorescaping buffers. Requested need for technical assistance and financial support.

2017 - Public Meetings

- Presentations to introduce the WIPs
- Obtain input from watershed residents

2018- Pilot Project On Tully Lake

- Onondaga County Soil & Water Cons. District
 - C-OFOKLA

A WIP ACTION PLAN GOAL-SHORESCAPING ON TULLY LAKE



**Tully Lake
WIP**
recommended lakeshore
and riparian
buffers to
reduce
stormwater
runoff
protecting
lake water
quality



**Onondaga Earth Corps
planting at site on
Hoffman Road,
September, 2018**

Collaborating Partners

- C-OFOKLA
- Onondaga County Soil and Water Conservation District (OCSWCD)
- Tully Lake Property Owners Association (TLPOA)
- Upper Susquehanna Coalition (USC)
- Onondaga Earth Corps (OEC)
- Earth Designs Landscaping and Consulting (EDLC)



**OEC Planting at dual properties at Sunfish Bay-
Identified in WIP**

Outcomes of These Powerful Collaborations

- OCSWCD-Financial support, plant selections, collaborate with project coordinator, maintain site, check for permitting
- USC- Technical assistance, initial selection, landscape design, meet with residents, monitor project
- Onondaga Earth Corps and Earth Designs Landscaping-Prepare property, weed removal, planting, tire removal and disposal
- C-OFOKLA and TLPOA-Volunteer time and resources, provide information about goals of shorescaping, promote initiative to residents and community, monitor lake quality through CSLAP(Citizens Statewide Lake Assessment Program, assist with removing any financial burden to participants



Lydia Brinkley (USC) works with OEC to discuss proper placement of live stakes as they remove invasive buckthorn

Some Goals and benefits of Shorescaping

- Captures stormwater runoff from roads, rooftops, and yards which can carry seepage from aging septic systems, and keep water quality safe from salt and other pollutants thus moderating storm surge.
- Trees intercept and absorb rainfall and create a shaded shoreline area which can lead to cooler lake temperatures-more favorable to desirable fish.
- Creates welcoming habitats for birds and bees.
- Diminishes harmful nutritional overload (Nitrates and phosphorous) from lakes which can decrease HAB outbreaks/improve water quality.
- Decreases erosion and protects shorelines.
- Replaces invasive terrestrial species with non-invasive plants.
- Replaces aging and degrading retention walls with a natural shoreline.



Year One-2018



Year Two-2019

BENEFITS OF THIS PROJECT:

- Landowner was invested and visible location provided a great opportunity to showcase
- Steep slope to shoreline
- Large turf lawn with ample sunlight
- Willing to plant 50 ft. buffer with two single story trees
- Willing to plant Fragrant Sumac hedge at top of hill as mid-point interception

THINGS WE LEARNED FROM THIS FIRST PROJECT:

- Scalping lawn practice was discontinued
- Mulch first year projects
- Follow up with second and third year re-plantings of plants that did not survive
- Check for Covenants and Association Regulations

Ranking Rubric

Category	No points	1 point	2 points	3 points	4 points	5 points	Comments
Site Prep	Noxious invasive species, that must be treated chemically (i.e. Japanese Knotweed)	Heavy equipment required to remove invasives (excavators, tractors etc.)	Use of chainsaws needed to remove invasive species	invasive species can be dugout by hand	invasive species that can be hand pulled	existing vegetation is turf, native plants, or non-invasive exotic plants	
	trailer/ dumpster needed to remove trash			Minimal trash		No garbage/ infrastructure needs to be removed.	
Site Selection	Shoreline has retaining wall across entire property; fill has been added and is heavily compacted, leaving bare areas of soil.	shoreline has retaining wall across entire property, fill has been added, lawn is mostly grass, and covers property		natural shoreline, or portion of water front has natural shoreline		Natural shoreline, low lying ground, No fill	Assessment must be performed on site, not from boat. Pictures should be submitted with rubric
	existing plants are not native to east coast, some invasive present			Plants are existing but native to NY or east coast		no/ minimal existing plantings other than turf grass	Assessment must be performed on site, not from boat. Pictures should be submitted with rubric
	Buffer width less than 25 feet	Buffer width at least 25 feet		Buffer width at least 35 feet		Buffer width greater than 50 feet	
	Extensive construction planned on property near planting area			minor construction planned in near future close to planting area		No construction planned in near future close to planting area	Equipment that will be running near or through area should be considered, in addition to location of construction
	No available planting area (entirely forested)	Full shade		Partial shade to full sun		Full Sun (no trees)	Assessment must be performed on site, not from boat. Pictures should be submitted with rubric

Site Features

Landowner

Qualities

Category	No points	1 point	2 points	3 points	4 points	5 points	Comments
Landowner Qualities	Landowner unwilling to participate in all aspects of site prep					Landowner willing to assist in site prep	
	Landowner wants to plan own buffer, or have extensive involvement of planting plan.			Landowner would like to have some input in plants selected		Landowner willing to give total control of planting design to planner	Landowner will have final approval over plan
	Landowner does not want trees	Landowner would prefer herbaceous plants to dominate planting with minimal shrubs and trees		Landowner would like a mix of shrubs and trees, but more shrubs than trees		Landowner has no preference to number of woody plants selected	Number of trees, and size of trees will be decided upon by planner based upon target/risk, and area of planting
	Landowner does not communicate			Landowner lets several days to a week pass before responding.		Landowner is responsive to communication	
	Landowner will not allow USC and/or partners to return to site.		Landowner will allow USC and/or partners to return to site for maintenance and evaluations			Landowner will allow USC &/or partners to return to site for maintenance, evaluations, or outreach purposes	
	Landowner unwilling to care for site	Landowner willing to monitor & maintain site				Landowner willing to monitor & maintain site, and, communicate w/USC or partners.	
	Multiple landowners (>2), or one of two landowners is unavailable to participate			Multiple landowners that do not reside in house together, but both parties willing to cooperate on project		One landowner, married couple, or partnership.	



Fragrant Sumac Hedge



Replanting and Mulching

Tully Lake Tire Removal Initiative and Shoreline Restoration/Shorescaping 2019

Tire retaining walls were a popular way to mitigate erosion in the past, however rubber tires decompose typically after 50-80 years.



Based on the decomposition of these tires, rims, and information from the homeowner, we estimate this wall to be about 45 years old.

Removal and Disposal Was A Collaborative Effort



OCSWCD- 2020 Tully Kettle Lakes WIP Project

GOALS:

- 1. Reduce road salt runoff at N. end of Hoffman Road**
- 2. Remove buckthorn at N. end of Hoffman Road**
- 3. Revisit/replant from years one and two**

Teresa Link, Conservation District Technician

Goals 1 & 2: Install Shoreline Buffer (reduce salt runoff) and Remove Invasive Buckthorn at the Nye/Sipfle Properties



Before



After

2020 Buffer at the Nye/Sipfle Properties



Before



After

- 200' of buffer
600 live stakes
- streamco willow
 - pussy willow
 - red-osier dogwood
 - silky dogwood
 - elderberry
 - buttonbush



Landowner was happy to help replant in Sunfish Bay

Herbaceous Plants – What we have planted

Common Name	Latin Name	Flower Color	Height
common milkweed	<i>Asclepias syriaca</i>	pink	3'
New England aster	<i>Symphotrichum novae-angliae</i>	purple	3'
crooked aster	<i>Symphotrichum prenanthoides</i>	light purple	2'
swamp aster	<i>Symphotrichum puniceus</i>	white	5'
marsh marigold	<i>Caltha palustris</i>	yellow	0.5'
bladder sedge	<i>Carex intumescens</i>		1.5'
white turtlehead	<i>Chelone glabra</i>	white	4'
ox-eyed daisy	<i>Leucanthemum vulgare</i>	white	2'
purple coneflower	<i>Echinacea purpurea</i>	purple	2'
Joe Pye weed	<i>Eupatorium maculatum</i>	pink	6'
boneset	<i>Eupatorium perfoliatum</i>	white	3'
common sneezeweed	<i>Helenium autumnale</i>	orange	4'
blue flag iris	<i>Iris versicolor</i>	blue	2'



New England aster



blue flag iris

Herbaceous Plants cont'd

Common Name	Latin Name	Flower Color	Height
turk's-cap lily	<i>Lillium superbum</i>	orange	6'
cardinal flower	<i>Lobelia cardinalis</i>	red	3'
great blue cardinal flower	<i>Lobelia siphilitica</i>	blue	3'
ostrich fern	<i>Matteuccia struthiopteris</i>		4'
monkey flower	<i>Mimulus ringens</i>	small blue flower	1'
wild bergamont	<i>Monarda fistulosa</i>	purple	3'
scarlet beebalm	<i>Monarda didyma</i>	red	3'
switchgrass	<i>Panicum virgatum</i>		6'
arrow arum	<i>Peltandra virginica</i>	white	3'
pickerel weed	<i>Pontederia cordata</i>	purple spike	3'
black-eyed Susan	<i>Rudbeckia hirta</i>	yellow/orange	2'
blue vervain	<i>Verbena hastata</i>	blue/purple	4'
white vervain	<i>Verbena urticifolia</i>	white	3-6'



arrow arum



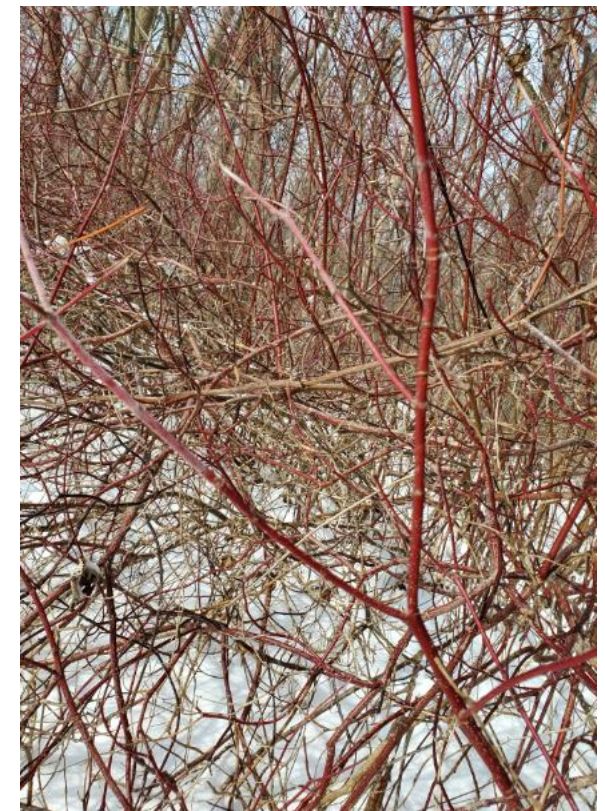
cardinal flower

Shrubs

Common Name	Latin Name	Flower Color	Height
speckled alder	<i>Alnus incana (A. rugosa)</i>		10-15'
buttonbush	<i>Cephalanthus occidentalis</i>	white	5-8'+
silky dogwood	<i>Cornus amomum</i>	white w/ red fall foliage	5-8'+
gray dogwood	<i>Cornus racemosa</i>	white w/ berries	8'+
red-osier dogwood	<i>Cornus sericea</i>	white	5-8'
spicebush	<i>Lindera benzoin</i>	red berry, yellow foliage	5-8'
fragrant sumac	<i>Rhus aromatica</i>	fragrant leaves when crushed, red fall foliage	3-5'
pussy willow	<i>Salix discolor</i>	showy white catkins	10-25'
Streamco willow	<i>Salix purpurea</i>		8'+
elderberry	<i>Sambucus canadensis</i>	white, w/ edible berries	8'+
meadowsweet	<i>Spirea alba</i>	white	3-6'
highbush blueberry	<i>Vaccinium corybosum</i>	White w/ blueberries	8'+
arrowwood	<i>Viburnum dentatum</i>	white w/ blue fruits	3-8'
nannyberry	<i>Viburnum lentago</i>	white	15-20'
American cranberrybush	<i>Viburnum trilobum</i>	white w/ red droupes	5-8'

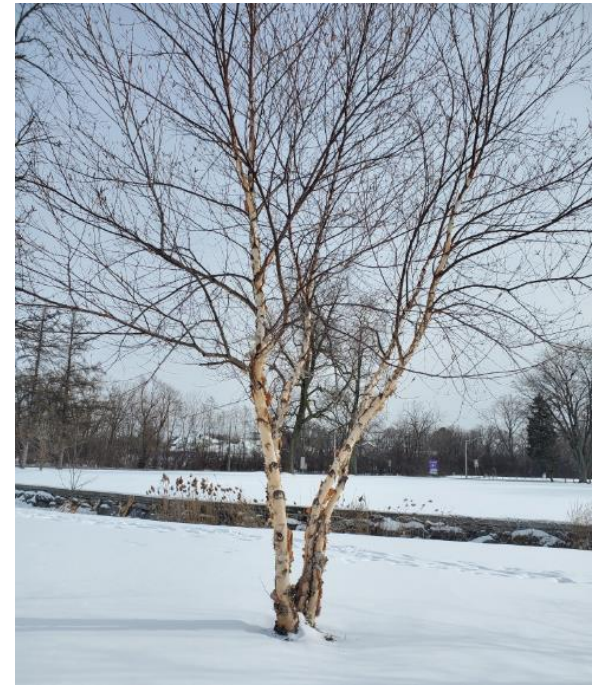


red-osier dogwood



Trees

Common Name	Latin Name	Flower Color	Height
red maple	<i>Acer rubrum</i>	red to scarlet red fall foliage	40-60'
river birch	<i>Betula nigra</i>	attractive bark, yellow fall foliage	30-40'
musclewood (American hornbeam)	<i>Carpinus caroliniana</i>	yellow to red fall foliage	20-30'
fringe tree	<i>Chionanthus virginicus</i>	fragrant white flowers	12-20'
black gum (tupelo)	<i>Nyssa sylvatica</i>	can have orange/red fall foliage	30-50'
swamp white oak	<i>Quercus bicolor</i>	yellow/gold fall foliage	50-60'
black willow	<i>Salix nigra</i>	light shade, fast growing	30-60'



river birch



Wetland Indicator Status (WIS)

- <https://plants.usda.gov/core/wetlandSearch>
- http://wetland-plants.usace.army.mil/nwpl_static/v34/home/home.html

Indicator Code	Indicator Status	Designation	Comment
OBL	Obligate Wetland	Hydrophyte	Almost always occur in wetlands
FACW	Facultative Wetland	Hydrophyte	Usually occur in wetlands, but may occur in non-wetlands
FAC	Facultative	Hydrophyte	Occur in wetlands and non-wetlands
FACU	Facultative Upland	Nonhydrophyte	Usually occur in non-wetlands, but may occur in wetlands
UPL	Obligate Upland	Nonhydrophyte	Almost never occur in wetlands

Cummings Park Spring/Summer 2021 – Village of Tully

- Identified in WIP
- 600' buffer
 - streamco (purple osier)
 - willow
 - pussy willow
 - red-osier dogwood
 - silky dogwood
 - buttonbush
 - elderberry



Cortland-Onondaga Federation of Kettle Lake Associations
Join Us - 2021!

Individual Member – Suggested \$10.00 donation

- Advance notice about workshops and other lake related activities.
- Your choice of one of our Unique Kettle Lake note cards.

Kettle Club Member – Suggested \$25.00 donation

- Listing on website if desired, inclusion on email notices.
- Advance notice about workshops and other lake related activities
- Invitation to meet the speakers.
- A complete set of Unique Kettle Lake Note Cards.

Watershed Partners – Other watershed groups at \$75.00

- Recognition, with your logo, on print and digital materials.
- Invitation to meet the speakers.
- Access to materials.

Corporate Partners at \$150.00

- Recognition, with your logo, on print and digital materials.
- Invitation to meet the speakers.
- Access to materials.
- Sponsorship opportunities.

OR – Become an Honorary Kettle Lake Steward - volunteer your time on events or office support.

- Listing on website if desired, inclusion on email notices.
- Advance notice about workshops and other lake related activities
- Invitation to meet the speakers.
- A complete set of Unique Kettle Lake Note Cards.

If you are interested in more active involvement in C-OFOKLA, please e-mail Tark Heath at cokfokla@gmail.com or indicate your interest here. _____

Please complete this Membership Form and return to Tom Cappa, Treasurer - 326 Long Rd - Tully, NY 13159
Make checks payable to C-OFOKLA

Application is for one year. TODAY'S DATE: _____/_____/ **2021**

Name _____
First Last

Business Name [Corporate or Watershed Partner]

Address _____ City _____ Zip _____

Business/Summer Address _____ City _____ Zip _____

E-mail Address _____ Phone _____

Do you have any questions or concerns?

We are a 501 (c) 3 Not for Profit – NYS Charities Bureau Registration # 44-89-36
NYS Charities Bureau Legal Statement: A copy of our most recently filed financial report is available from the Charities Registry on the New York State Attorney General's website (www.charitiesnys.com) or, upon request, by contacting the New York State Attorney General, Charities Bureau, 28 Liberty Street, New York, NY 10005, or by emailing cokfokla@gmail.com. You also may obtain information on charitable organizations from the New York State Office of the Attorney General at www.charitiesnys.com or (212) 416-8401.



**Support our Kettle
Lakes by becoming a
member. Memberships
begin at \$10.00. You can
do so by mailing in the
form or going to our
web site**

**[C-OFOKLA | Valuing our
Kettle Lakes](#)**

Honorary Kettle Lake Stewards

Melinda Portmess (Year 1)

Ron Ranallo (Year 1)

Mark and Shaileen Swan (Year 1)

Tom Fox and Ginger Humphrey (Year 2)

Jean Carol Bacon (Year 2)

Alice Alsever (Year 2)

Hanna and Rick Nye (Year 3)

Diane Siple (Year 3)

[Tully Lake Property Owners Association](#)

Kettle Lakes Sharing Sessions 2021



©The Main Dock, Tully Lake, Colleen Zawadzki

The first of these sessions highlights Tully Lake which has been involved in a collaborative shoreline landscaping project to diminish run off. Stormwater can carry pollutants into the watershed and its ecosystem. Find out about their collaborative work with C-OFOKLA and Onondaga County Soil and Water Conservation District to fund these projects and provide technical assistance. Explore the process that was developed with the Upper Susquehanna Coalition and Onondaga Earth Corps to design and plant these shorescapes over the last three years. In this series, each kettle lake will present a different area of interest and those titles will be shared soon. You can register for as many of the four Kettle Lakes Sharing Sessions that interest you by emailing:

Colleen Zawadzki, President Tully Lake Property Owners Association at karatecolleen123@gmail.com

Tully Lake **Tuesday, February 2nd /6:30-7:15**

Crooked Lake **Tuesday, March 2nd /6:30-7:15**

Song Lake **Tuesday, April 6th /6:30-7:15**

Little York Lake **Tuesday, May 4th /6:30-7:15**



Please join our upcoming Kettle Lakes Sharing Sessions and share with friends:

- **Crooked Lake, Tuesday,
March 2nd-6:30-7:15**
- **Song Lake, Tuesday, April
6th-6:30-7:15**
- **Little York Lake, Tuesday,
May 4th, 6:30-7:15**

Collaborating Partners



www.cofolka.org
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Tully, New York 13159
Tarki Heath
contact@cofokla.org

EDLC- Earth Designs Landscaping and Consulting
11 Pebble Hill Road, DeWitt, NY 13214



Onondaga County Soil and Water
Conservation District (OCSWCD)
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(315) 457-0325
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E-mail: wwalsh@u-s-c.org



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