Tools for protecting & restoring riparian areas





# Today's fare...

- Welcome & Introductions
- Overview (and new tools)
- Status of riparian protections
- The Gateway experience
- Legislative update
- Q&A; discussion

Chet Arnold, UConn CLEAR Dave Dickson, UConn CLEAR Zbig Grabowski, UConn CLEAR Alan Ponanski, CT River Gateway Commission Alicea Charamut, Rivers Alliance of CT All

# Overview of Riparian Areas & Importance





provides research, tools, training, information, and assistance to community decision makers and other audiences in support of:

- better land use decisions
- healthier natural resources
- more resilient communities



# Center for Land Use Education and Research (CLEAR)



https://clear.uconn.edu

# **Defining the Terms**

- "Riparian" refers to the area by the banks of a river, stream, or other body of water.
- "Riparian Corridor" refers to a designated zone or strip of land of a specified width along the border of an area
- "Riparian Buffer" is the natural vegetation and soil cover adjacent to a river, stream, or other body of water.





# **Riparian buffer functions**

first line of defense against the impacts of development

- slow runoff
- stabilize shorelines & protect from erosion
- aid in flood control (temp storage)
- filter or trap pollutants from runoff
- provide food, habitat, and corridors for invertebrates, fish, and wildlife
- shade waters (temp moderation) for fisheries enhancement





# **Riparian buffer services/benefits**

- Minimize property damage
- Investment in stormwater management, flood control and pollutant removal
- Increased property values
- Reduced land maintenance costs (compared to managed areas)
- Reduced urban heat island
- Recreational opportunities/aesthetics
- Connectivity of green space



# **Size matters**

The Wider the Buffer the Greater the Benefits



Tennessee Urban Riparian Buffer Handbook

# **Content matters**

#### Effectiveness of Different Vegetation Types for Specific Buffer Benefits

BENEFITS	grass	shrubs	trees		
stabilize streambank					Low
filter sediment and the nutrients, pesticides, & pathogens bound to it	- S				
filter nutrients, pesticides, and microbes from surface water					Moderat
protect groundwater and drinking water supplies					
improve aquatic habitat					High
improve wildlife habitat for field animals				100	
improve wildlife habitat for forest animals					
provide economically valued products					
provide visual interest					
protect against flooding					

From Riparian Buffers for the Connecticut River Watershed No 8



### **Disturbances within the Riparian Corridor**

- Conversion of natural vegetation to development or lawn
- Dumping of yard waste
- Increased dominance of invasive plants



- Tree & woody debris removal
- Trail establishment
- Stormwater erosion
- Fertilizer impacts

Riparian buffer importance has never been greater





# We are an urbanizing state





# **Effects of Urbanization**

• Flooding & erosion

• Water pollution

Changes to stream form & function





Day after historic rainfall, help for residents as cleanup continues



### And now, to pile on: climate change



#### CLEAR

# **Riparian buffer services/benefits**

first line of defense against the impacts of development

- slow runoff
- stabilize shorelines & protect from erosion
- aid in flood control (temp storage)
- filter or trap pollutants from runoff
- provide food, habitat, and corridors for invertebrates, fish, and wildlife
- shade waters (temp moderation) for fisheries enhancement



# New CLEAR info & tools



https://clear.uconn.edu



#### CLEAR

## Land cover indicators of watershed health

The literature points to the critical role that various land cover factors have in watershed health

Generally, these indicators are more accurate at smaller watershed sizes



### **2020:** a leap in land cover resolution

New 1m resolution NOAA C-CAP land cover dataset (based on 2016 imagery









Why 100ft riparian zone?



- Most common IWWC watercourse "review zone" used in CT
- Most common width used in research studies (e.g., Goetz et al.)
- Recommended in several studies as width that is protective of water quality (e.g., UNH report)



From Western CT Council of Governments, 2022.

### 100' Riparian Corridor

### Upland area (outside of corridor)



#### CLEAR

### Local Watershed Assessment Tool

 Effort to assess the health of small watersheds in CT based on high resolution (1M) land cover in upland & riparian areas



# The Combined Condition Index (CCI)

- **Combined Condition Index** is a metric that describes the probable health of a watershed based on land cover within the watershed.
- CCI is calculated to have best fit with Macroinvertebrate Multi-metric Index (MMI) –based on CT DEEP sampling data
- CCI ranges between o (poor) and 1 (excellent). Higher CCI score indicates better water quality.
- CCI is based on the land cover characteristics of <u>riparian buffer</u> and <u>upland watershed</u>.







# How is CCI Calculated?

(black box version)

- **1.** Divide a watershed into
  - upland watershed (everything . outside the buffer)
  - 100' riparian buffer —

Mitigative effects of buffer

Pressures from

watershed land use

- 2. Compare land cover makeup of the two zones.
  - Natural
  - Impervious
  - > Agriculture-like

UCONN UNIVERSITY OF

**CCI** Management Category indicates the state of, and suggested land use strategies for, a local basin

### **Conservation: CCl >=0.75**

protective strategies

**Recovery:** 

#### 0.43 < CCI < 0.75.

reforesting, riparian protection, mitigation (GSI)

Mitigation: CCI < 0.43

riparian restoration, urban tree canopy initiatives, GSI



CLEAR





# **CCI** map of **CT**





# Local Watershed Assessment Tool

- https://s.uconn.edu/wshedtool lacksquare
- integrates a Story Map, Dashboard, and **Scenario Builder**





Scenario Builder

Strategies





# Next up... webinars & workshops!

Training on the tools

UCONN | UNIVERSITY OF CONNECTICUT



### CLEAR Webinar April 17 at 1pm: **The Role of Riparian Buffers in Watersheds and in Your Local Landscape** <u>https://s.uconn.edu/ripwebinar1</u>



Strategies for conservation, mitigation, and recovery



Riparian Restoration



**Riparian Protection** 



Low Impact Development



**Open Space Conservation** 

#### CLEAR

# **Status of Protections for Riparian Areas in CT**

- Enabling Legislation
- What Zoning Regulations in CT are already protective of riparian areas?
- Do they appear to be effective given current data?



Dr. Zbigniew J. Grabowski Associate Extension Educator in Water Quality UConn CLEAR

#### CLEAR

# Inland Wetlands & Watercourses – CGS Chapter 440

- Recognizes importance of IWW protection for public welfare
- Requires (some) training for IWW commission member(s) and establishes review
- Requires permits for activities impacting IWW Boundaries of upland review areas set by municipalities







Cities, Towns, the Connecticut DEP and the Conservation of Inland Wetlands

A Special Report of the Connecticut Council on Environmental Quality October 1, 2008 CT Council on Environmental Quality (2008):

- Training effective, but needs to be more accessible and updated
- Municipalities have inconsistent reporting to DEEP
- DEEP lacked capacity implement, enforce, or provide sufficient technical assistance to IWWA
- Combined IWW and PZC appear less effective at protecting wetlands



#### **CLEAR (2011)**

- Amounts of developed land were lower in riparian zones than in the state as a whole.
- However, increases in riparian zone development were closely correlated with overall increases in development in the town in which they were located.
- This suggests that physical factors (slope, wet soils) were more of a determinant of riparian development than local IWWC or other regulations

#### THE CASE FOR RIPARIAN CORRIDOR PROTECTIONS



Zoning Strategies to Reduce Pollution of Inland Waters and Resultant Hypoxia of Long Island Sound

August 10, 2021 Western Connecticut Council of Governments 1 Riverside Road, Sandy Hook, CT 06482 http://westcog.org



### WestCOG 2021 (Viddich)

"...inland wetland regulations <u>do not prohibit</u> development with upland areas adjacent to riparian corridors and FEMA's flood insurance program <u>does not prohibit</u> development within the 100-year floodplain...

...this case-by-case review process enables development to nibble away at the integrity of the water quality values associated with undeveloped riparian forest buffers."

#### THE CASE FOR RIPARIAN CORRIDOR PROTECTIONS



Zoning Strategies to Reduce Pollution of Inland Waters and Resultant Hypoxia of Long Island Sound

August 10, 2021 Western Connecticut Council of Governments 1 Riverside Road, Sandy Hook, CT 06482 <u>http://westcog.org</u>

uncil of Governments Hook, CT 06482 All other New England states require buffer protection of some kind, and have explicit state-defined setback standards

Table D. Riparian Buffer Zones in New England States at the State and Local Levels: 2021

State	Municipalities with Riparian Buffer Setback Regulations	Municipalities Governed by State Adminis- tered Riparian Buffers	Municipalities in State	Percent with Local Ripar- ian Buffer Regulations	Percent with State Ripar- ian Buffer Regulations
Connecticut	38	0	169	22%	0
Maine	488	488	488	100%	100%
New Hampshire	147	234	234	63%	100%
Massachusetts*	31	351	351	9%	100%
Vermont	97	246	246	39%	100%
Rhode Island	0	39	39	0%	100%
<b>Total</b> Note:* Massachusetts m	801 unicipalities regulate	<b>1358</b> riparian buffer setbacks	<b>1527</b> through Conservation	<b>52%</b> – Commissions	<b>89%</b> not municipal

zoning.

#### Beyond IWWA and Floodplain programs:

Riparian protection via zoning regs



#### CLEAR

### **Review of Current Statewide Municipal Zoning Protections**

- **31** (18%) CT Municipalities explicitly refer to riparian areas in their zoning regulations
- **51** (30%) have at least partial restrictions on clearance of vegetation near watercourses and wetlands
- **157** (93%) have at least partial restrictions on development, largely due to floodplain regulations
  - **20** of those restrict almost all development in the floodway and/or floodplain
- **33** (20%) have some restriction on agricultural activity near wetlands and watercourses



### "Streambelt Zoning": Identification of priority waterways

#### Willington CT, Effective 12/15/2012

**Riparian Corridors.** The following watercourses and their tributaries (upstream to the point where their drainage area is less than 200 acres) are of special concern within the town: Fenton River, Roaring Brook and Willimantic River. For these watercourses and their tributaries, no buildings or associated parking areas, septic systems, or clearing of vegetation shall be proposed within 150 feet measured horizontally from the wetland boundaries adjacent to each side of the watercourse...

	TON	f Search
		A Start
CONNECTIO	CUT	2. 2
SEALST		E OF CONN
OUT DEPARTMENTS BOAR	DS & COMMITTEES	Help Cente
		nep cent
pessony Structures Permitting Guide		T
	Home » Departments » Land Use Department	<
de to Farm Animals on Residential Property	Zaning Degulation Information	
w to Determine if a "Lot" is Buildable	Zoning Regulation Information	n
w to use the Town's GIS System		
nd Use Complaint Form	9	
	The Planning and Zoning Commission has approved a number of re	evisions to the Zoning Regulations
d Use Department Feedback	since the last comprehensive set was adopted in March of 2020. The	e most recently approved amend-
nning and Zoning Commission		
ject Approval Flowchart	Attachment	Size
cial Permit Abutters Notification	Zoning Regulations Table of Contents	46.4 KB
rmation Packet	Zoning Regulations Set Revised March 2020	1.86 MB
n of Willington GIS	R60 Zone Info	188.35 KB
	Designed Commercial Zone Info	333.32 KB
a ar williontoo Liniine Permittina Sottware	South Willington Village Zone Info	268.29 KB
in or mining on or mine r er mitting oortware		
lington Zoning Map	Designed Industrial Zone Info	194.11 KB
lington Zoning Map	Designed Industrial Zone Info     Designed Community Residential Zone Info	194.11 KB 192.95 KB
lington Zoning Map	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Riderived Community Tone Info	194.11 KB 192.95 KB 192.6 KB
lington Zoning Map	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Neighborhood Commercial Zone Info     Designed Recepton Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ing Regulation Information	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Neighborhood Commercial Zone Info     Designed Recreation Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
Ington Zoning Map Ing Regulation Information pottact Info pre:	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Neighborhood Commercial Zone Info     Designed Recreation Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ing Regulation Information pottact Info pote: 0) 487-3123	<ul> <li>Designed Industrial Zone Info</li> <li>Designed Community Residential Zone Info</li> <li>Designed Elderly Residential Zone Info</li> <li>Designed Neighborhood Commercial Zone Info</li> <li>Designed Recreation Zone Info</li> </ul>	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
Ington Zoning Map Ing Regulation Information <b>ontact Info</b> 0) 487-3123 : 0) 487-3117	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Neiphonod Commercial Zone Info     Designed Recreation Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ing Regulation Information <b>Contact Info</b> 0) 487-3123 c 0) 487-3117	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Riderty Residential Zone Info     Designed Riderty Residential Zone Info     Designed Recreation Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ing Regulation Information <b>Contact Info</b> 0) 487-3123 c 0) 487-3117 C	<ul> <li>Designed Industrial Zone Info</li> <li>Designed Community Residential Zone Info</li> <li>Designed Riderty Residential Zone Info</li> <li>Designed Regreation Zone Info</li> <li>Designed Recreation Zone Info</li> </ul>	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ing Regulation Information <b>ontact Info</b> <b>one:</b> 0) 487-3123 c 0) 487-3117	<ul> <li>Designed Industrial Zone Info</li> <li>Designed Community Residential Zone Info</li> <li>Designed Elderly Residential Zone Info</li> <li>Designed Recreation Zone Info</li> </ul>	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ing Regulation Information <b>pontact Info</b> <b>pontact Info</b>	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Recreation Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
Ington Zoning Map Ington Zoning Map Ing Regulation Information <b>pntact Info</b> <b>pne:</b> 0) 487-31123 C 0) 487-3117	Designed Industrial Zone Info     Designed Community Residential Zone Info     Designed Elderly Residential Zone Info     Designed Neighborhood Commercial Zone Info     Designed Recreation Zone Info	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB
ington Zoning Map ington Zoning Map ing Regulation Information <b>pontact Info</b> one: 0) 487-31123 c 0) 487-3117	Designed Industrial Zone Info      Designed Community Residential Zone Info      Designed Klerry Residential Zone Info      Designed Recreation Zone I	194.11 KB 192.95 KB 192.65 KB 194.83 KB 187.92 KB
Ining Regulation Information Ining Regulation Ining Regulatio Ini	Designed Industrial Zone Info      Designed Community Residential Zone Info      Designed Ridery Residential Zone Info      Designed Recreation Zone I	194.11 KB 192.95 KB 192.6 KB 194.83 KB 187.92 KB

# **Special Overlay Zones**

**Eightmile River, Farmington River** 

The <u>riparian</u> and wetland features of the Eightmile River Watershed are a key component of the largely intact watersheds and natural character of East Haddam The <u>purpose of this Overlay District is to</u> <u>maintain a continuous buffer</u> of native forest and shrubs around all watercourses and wetlands.

East Haddam, 2016





# Indirect zoning strategies

- Stricter floodplain regulations (New Hartford)
- Minimum buildable lot/area standards (Lisbon)
- Aquifer & water supply protection zones (Montville)
- Open space network overlay zones (Granby)
- Stricter IWWC requirements (Washington) (not zoning...)



#### Floodplain / Floodway

### New Zoning Authority: Public Act 21-29

In any municipality that is contiguous to or on a navigable waterway draining to Long Island Sound, **zoning regulations shall**:



(A) be made with reasonable consideration for the restoration and protection of the ecosystem and habitat of Long Island Sound;

(B) be designed to reduce hypoxia, pathogens, toxic contaminants and floatable debris on Long Island Sound; and

(A) provide that such municipality's zoning commission consider the environmental impact on Long Island Sound coastal resources, as defined in section 22a-93, of any proposal for development.



### NEXT: Can we see the impact of these regulations in our current land cover data? (Stay tuned...)

#### Town Wide Weighted CCI Category



#### Town Restrictions on Activities within Riparian Buffers





### Alan N. Ponanski, Esq. Rules Committee Chairman

2024 Connecticut Land Conservation Conference Wesleyan University

# Connecticut River Gateway Commission Protecting Riparian Buffers



# Creation of the Conservation Zone

- 1973: The Connecticut General Assembly authorized the Connecticut River Gateway Conservation Zone, recognizing the Connecticut River Estuary as a unique and precious resource for the entire state (Connecticut General Statutes, C.G.S. Sec. 25-102 c)
- **Purpose:** To protect the natural, historic and aesthetic resources of the lower Connecticut River in the Conservation Zone, nearly 30,000 acres from ridge top to river's edge.
- Zone: Encompasses Connecticut River shoreline in Chester, Deep River, East Haddam, Essex, Haddam, Lyme, Old Lyme and Old Saybrook.







The member municipalities voted overwhelmingly to join this effort to protect the Connecticut River Valley:

- By guiding future development through common zoning, planning and development criteria.
- Adopting a 100-foot structure setback & a 50-foot riparian buffer to protect the river's edge in the Conservation Zone.



# **Riparian Buffer Regulation**

The 50-foot riparian buffer standard requires that:

- All vegetation be retained within a minimum of 50 feet of the Connecticut River, its tributaries, and marshes in the Zone.
- Vegetation includes understory and mature trees.

Purpose:

- To protect and enhance water quality;
- To preserve the natural river appearance as development continues





# **Riparian Buffer Exceptions**

### Waterfront property owners:

- May clear a 5-foot path through the buffer to gain access to the water.
- Are permitted to remove the limbs on the lower third of mature trees to gain river views.

Note: This limited pruning, often called "limbing up," allows property owners to retain their views, while neighbors and river users continue to enjoy the natural vegetation.



View corridor after removing limbs on the lower 1/3 of the tree



# **Riparian Buffer Coordination**

Critical to protecting the riparian buffers and the "natural and traditional riverway scene" are coordinated efforts by the Connecticut River Gateway Commission Staff and:

- Property owners;
- Land use staff in member towns;
- The engineers and architects employed in the lower CT River valley.

Gateway staff offer development suggestions so that owners can enjoy their property while preserving the beauty of the Connecticut River valley.















![](_page_55_Picture_0.jpeg)

![](_page_56_Picture_0.jpeg)

![](_page_57_Picture_0.jpeg)

![](_page_58_Picture_0.jpeg)

### **Riparian Buffer Expansion : A Case Study**

- Citing CGS Section 25-102h, the Old Saybrook Zoning Commission (ZBA) requested Gateway review a variance application with special use exception to permit the demolition of an existing structure and then rebuild a new house using the existing foundation which encroaches 5 feet into the 100-foot Structural Setback.
- Applicant met with Gateway several times, understood Gateway's mission and used feedback from those meetings to design a house that protected the 100-foot setback by modifying the foundation.
- Applicant agreed to use plantings expanding the Riparian Buffer along the tidal wetland boundary and in the yard to soften the view of the property from the river.
- Gateway advised the ZBA that those modifications counterbalanced any potential adverse impacts on the natural and traditional riverway scene on the Connecticut River.

![](_page_59_Picture_0.jpeg)

### For that project, Gateway also requested Old Saybrook ZBA impose the following conditions:

- 1. The south-side wing of the house remain a single story.
- 2. Preserve existing trees on the property.
- 3. Use dark roofing materials and earth tones on the house.
- 4. Minimize lighting used and use Dark Sky compliant lighting fixtures.
- 5. Use diverse native plants in the landscaping and Riparian Buffer.
- 6. Use low reflective glass in the windows.

![](_page_60_Picture_0.jpeg)

![](_page_61_Picture_0.jpeg)

### Conclusion:

### **Gateway Has Successfully Protected & Enhanced Riparian Buffers**

- Gateway expects applicants for variance to respect the preservation practices put in place by Gateway Standards including planting and encouraging growth of natural riparian vegetation along waterways to improve the ecological health of the CT River.
- Gateway staff seek to help applicants for variance achieve their development goals while balancing the legal requirements for preserving/enhancing riparian buffers and the beauty of the river valley.
- Due to this expectation and cooperation, Gateway has successfully guided hillside/waterfront development to reduce its visual impact while protecting and planting riparian buffers.

![](_page_62_Picture_0.jpeg)

•

### For more information:

- Connecticut River Gateway Commission: <u>www.ctrivergateway.org;</u> <u>contact@ctrivergateway.org;</u>
- Connecticut River Coastal Conservation District <u>https://www.conservect.org/ctrivercoastal/</u> Middletown
- CT SeaGrant Healthy Coastal Ecosystems <u>https://seagrant.uconn.edu/focus-areas/healthy-</u> <u>coastal-ecosystems/</u>
- Living Shoreline informational articles below
  - https://www.nhregister.com/shoreline/article/Living-shoreline-in-Old-Saybrook-among-16692399.php https://www.ctpublic.org/news/2021-07-28/living-shorelines-becoming-more-commonin-ct-for-erosion-control

![](_page_63_Picture_0.jpeg)

![](_page_63_Picture_1.jpeg)

![](_page_64_Picture_0.jpeg)

![](_page_64_Picture_1.jpeg)

#### Riparian Buffers: A Lightning Round Policy and Regulatory Assessment

Alicea Charamut Executive Director, Rivers Alliance of Connecticut

#### Buffers and Setback Standards in New England

Riparian Setback Standards Adopted by New England States: The Case for Riparian Corridor Protections by WestCOG

#### Appendix 3: Riparian Setback Standards Adopted by New England States: 2021

	State Law Es-	State Law Estab-				
	tablishing	lishing Minimum				
State	Buffer Zone	.Setbacks				
Connecticut (1995)						
Regulate activities adjacent to wetlands**	No	No				
Regulate activities Adjacent to Rivers and Streams**	No	No				
Maine (2002)						
Regulate activities Adjacent to Wetlands		75				
Regulate Shore lands of Rivers		250				
Regulate activities Adjacent to Streams		75				
Principal Structure Setback 12 Significant River Segments		125				
Shore & Protection Sub-Dist. Rivers draining 50 sq. miles+ 250						
Massachusetts (1996)						
River Front protection corridor for perennial streams	200					
River Front protection in 14 designated Urban Areas	25					
New Hampshire (1988, 1990)						
State established buffer zone	250					
.Setbacks for 4th order streams and Higher		150				
Setbacks for Primary Structures on 1st to 3rd order Streams		50				
Setbacks for Accessory Structures		20				
.Setback for Woodland Buffer*		50				
Setback for controlled release fertilizers		25				
Setback for all other fertilizers		50				
.Setbacks for New Auto Junk Yards***		50/250				
Setbacks for applicator license applied Pesticides		50				

Rhode Island (2015)****					
Buffer zones for Swamps of 3 acres or more	100				
Buffer zones for Marshes of 1 acre or more	100				
Buffer for Rivers, Streams & Intermittent streams < 10 ft. wide	100				
Buffer for Rivers, Streams & intermittent streams > 10 ft. wide	200				
20 Designated Drinking Water Supply Reservoirs	200				
Rivers in watershed of public drinking water supply reservoirs	200				
76 Designated Rivers in Regions 1&2	200				
33 Designated rivers in Regions 1&2	150				
All Streams in River Protection Zones 1&2	100				
Swamps & Marshes of any size in Urban region	100				
3 Designated rivers in Urban region	150				
14 designated rivers in Urban region	100				
Ponds contiguous to river in public drinking water watershed	100				
15 designated Ponds greater than 10 acres	50				
Vermont (2015)					
Setback from streams less than 2 square mile watershed		50			
Setback from stream s more than 2 sq. mi, watershed		100			

\*25% of woodland buffer between 50 & 150 feet remains unaltered (RSA 483-B:(V(b))

\*\*Buffer zone recommendations established by CTDEP policy in 1997.

\*\*\*Auto Junk yards on streams (1st to 3rd order) designated before 2015 are setback 50 ft. On streams designated after 2015, auto junk yards are setback 250 ft.

\*\*\*\* Rhode Island's wetland regulations implement a 2015 law. Table reflects the final rule.

![](_page_65_Picture_9.jpeg)

### How Can We Do Better?

- Look at how the IWWA can be updated to include the most recent science and incorporate climate change.
- Provide for more consistent riparian buffer protections while avoiding "takings."

![](_page_66_Picture_3.jpeg)

• Increase resources to increase staff dedicated to Inland Wetlands and Watercourses within DEEP.

![](_page_66_Picture_5.jpeg)

### HB 5218 - AN ACT CONCERNING THE ESTABLISHMENT OF RIPARIAN BUFFERS AND REVISION OF CERTAIN INLAND WETLANDS PROVISIONS

- Reminds DEEP that green infrastructure funds for stormwater can and should be used to incentivize and establish riparian buffers.
- Directs DEEP to develop mandatory setbacks.
- Directs DEEP to update the comprehensive training program
- Raises the bar on training for commission members.

![](_page_67_Picture_5.jpeg)

#### **Contact Information**

![](_page_68_Figure_1.jpeg)

Alicea Charamut

alicea@riversalliance.org

www.riversalliance.org

(860) 361-9349 office

![](_page_68_Picture_6.jpeg)

Scan to learn more about what we do!

#### **30+ YEARS OF PROTECTING CONNECTICUT'S WATERS**

# Questions & Comments(?)

![](_page_69_Picture_1.jpeg)

### CONNECTICUT Land Conservation Council

Share your thoughts! Scan the QR codes below to fill out evaluations online for the 2024 Connecticut Land Conservation Conference

![](_page_70_Picture_2.jpeg)

![](_page_70_Picture_3.jpeg)

General Conference Evaluations Workshop Evaluations