# CRITICAL AREA ORDINANCE UPDATES

Planning Commission Briefing

May 22, 2025

# Tonight's Agenda

### **CAO Update Overview**

- ▶ Why are we updating the critical area ordinance?
- What are critical areas
- Current critical area codes
- Anticipated code amendments
- Public outreach plan

PC Focus Session #1: Wetland Regulations

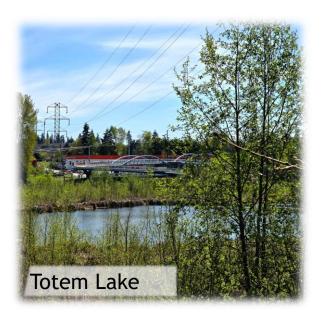
# **GMA Requirements**

- Designation, Definition, and Protection of Critical Areas
- ► Best Available Science (BAS) Review
- Reasonable Use Exceptions
- Kirkland 2044 Comprehensive Plan
- Special consideration to:
  - Preserve or enhance anadromous fisheries
  - Protect the Waters of the State
  - Landscape scale / regional approach
  - Account for inherent economic, ecological, social and cultural values
- Non-regulatory outreach and education and monitoring and adaptive management programs

# Designating and Defining Critical Areas

### What are Critical Areas?

- ▶ All regulated critical areas fall into one of five categories:
  - Critical Aquifer Recharge Areas
  - Frequently Flooded Areas
  - Wetlands
  - Fish and Wildlife Habitat Conservation Areas (including streams)
  - Geologically Hazardous Areas
- Protection: Preservation of the functions and values of the natural environment or to safeguard the public from hazards to health and safety.
- Functions and values are scale related, ranging from site specific to watershed, and even regional
- Protection may require both regulatory and nonregulatory measures to meet No-Net-Loss requirements and prioritize mitigation sequencing.



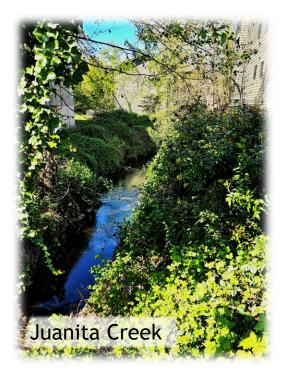






### Wetlands

- Small lakes and ponds
- Emergent wetlands
- Forested wetlands
- Documented mitigation sites
- Not other human-made water holding areas



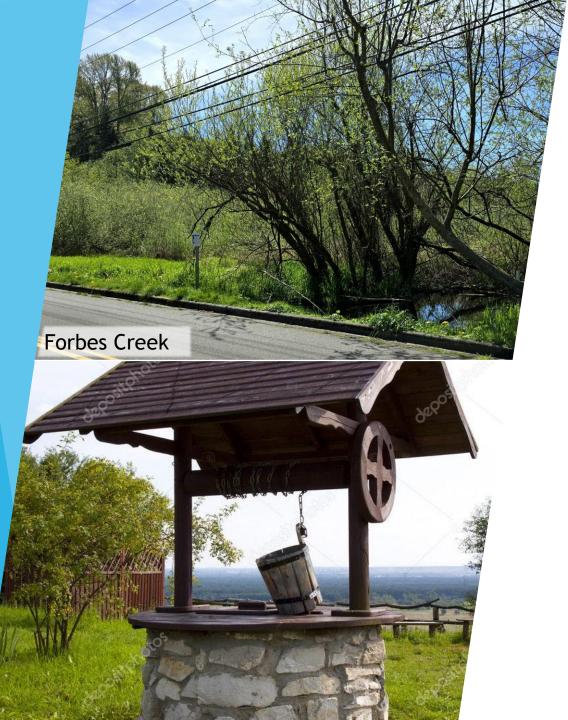






### Fish and Wildlife Habitat Conservation Areas (including Streams)

- Streams and other Waters of the State and surrounding habitat
- Habitat
   Conservation Areas
   for threatened,
   endangered and
   sensitive species



Frequently Flooded Areas and Critical Aquifer Recharge Areas

# Geologically Hazardous Areas

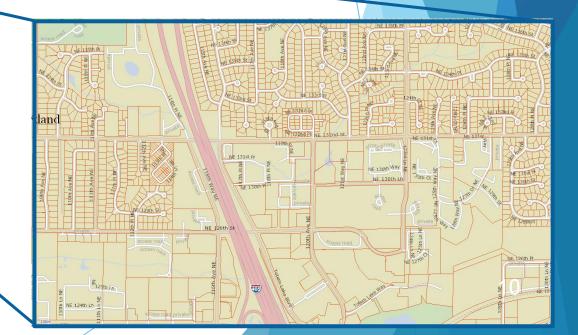




## Where are Critical Areas?



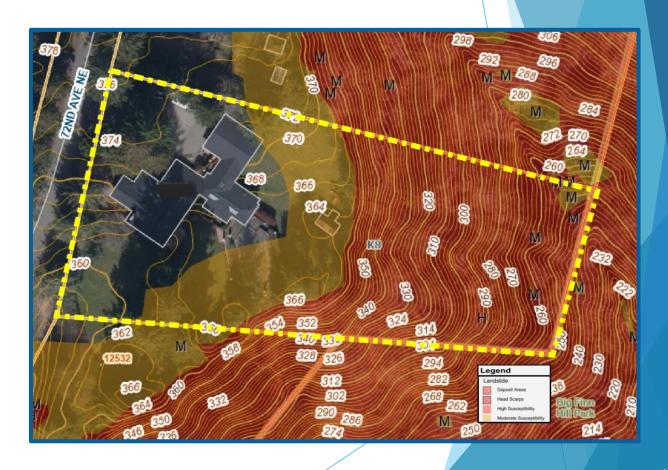
- Wetlands
- Floodplains
- Streams
- Habitat
- Ground Water
- Landslide
- Liquification/Seismic Hazard



# Current Code and General Updates

# Current Critical Area Review Process (KZC 85 - Geologically Hazardous Areas)

- Geotechnical Report (KZC 85.15)
- Peer Review (KZC 85.22)
- Recording Documents
  - Dedication (KZC 85.40)
  - Liability (KZC 85.45)
  - Notice of Geologic Hazard (KZC 85.50)

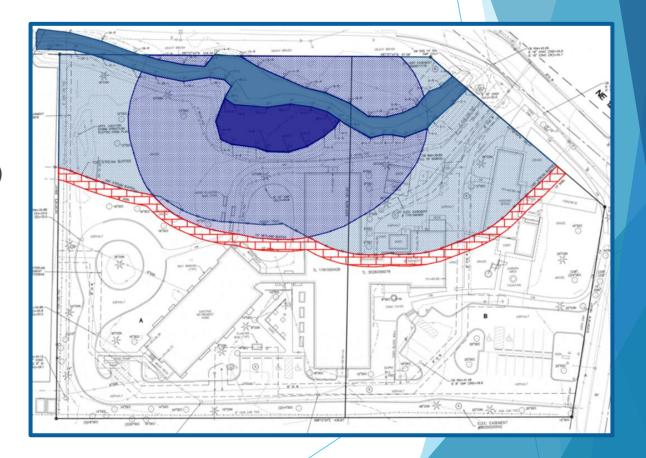


# Potential Code Amendments and Policy Changes (KZC 85 - Geologically Hazardous Areas)

- General Updates and Clarity Updates
  - Potential amendments to thresholds for:
    - Exemptions
    - Required Review
    - Peer Review
  - Notice of Geologic Hazard recording document
- Required State Updates and BAS Review
  - Critical Area Maps
  - Natural Greenbelt Protective Easement (NGPE)
  - Structural Setbacks
  - Vegetative Requirements

# Current Critical Area Review Process (KZC 90 - Wetlands/Streams/Habitat)

- Critical Area Determination (KZC 90.105)
- Critical Area Report (KZC 90.110)
- Vegetative Buffer Standards (KZC 90.130)
- Monitoring and Maintenance (KZC 90.160)





# Potential Code Amendments and Policy Changes (KZC 90 - Wetlands/Streams/Habitat)

- General Updates and Clarity Updates
  - Coordination/consistency with other KZC Chapters
  - Simplify and streamline the permit review processes
- Required State Updates
  - Definitions and Designations
  - Emphasize Priority Habitats, Riparian Management Zones, Waters of the State, Anadromous Fisheries
  - Minimize impacts to wetlands and associated buffers
- BAS Review
  - Clarify no net loss requirements for habitat value and function
  - Stream Buffer Assessment

# Outreach and Next Steps

### Public Outreach - Methods of Outreach











Webpage

Social Media

Email / Bulletins

Direct Outreach

Stakeholder and SME Interviews

# Current Web Page

Home / Government / Departments / Planning and Building Department / Critical Area Regulations

#### **Critical Area Regulations**

The Growth Management Act (GMA) requires all cities and counties in Washington State to adopt regulations protecting critical areas that provide vital environmental functions such as clean water, fresh air, and habitat for endangered and threatened species. Critical areas include the following:



- Wetlands
- Fish and Wildlife Conservation Areas
- Frequently Flooded Areas (FFA)
- Critical Aquifer Recharge Area (CARA)
- Geologically Hazardous Areas (GHA)

#### **Learn More About Critical Areas:**

Wetlands Fish/Wildlife FFA CARA GHA

Geologically Hazardous Areas include lands naturally susceptible to landslides, severe

Geologically Hazardous Areas include lands naturally susceptible to landslides, severe erosion, or soils susceptible to liquification during earthquakes. Management of these areas is important to public safety, property protection, infrastructure resilience, and environmental preservation.

#### Want to learn more?

City of Kirkland - Landslide Hazard Map City of Kirkland - Interactive GIS Map\ WA Department of Natural Resources – Geologic Hazards USGS – Natural Hazards

#### **Contact Information**

#### 2025 Code Update

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#### **Permitting and General Questions**

Planning and Building 425-587-3600

Spills, Water Quality, or Other Critical Area Impacts

Public Works 425-587-3800

Submit questions via Our Kirkland

Our Kirkland >



### Public Outreach - Stakeholders

King County and Water Resource Neighboring State Agencies Tribes Inventory Area Jurisdictions Managers Non-Critical Area Organized Neighborhood Government Interest Groups Consultants Associations **Organizations** General Public **Property Owners** 

# Next Steps - Meeting Schedule\*

\*subject to change based on guidance from Planning Commission, City Council, and/or outreach efforts

DEADLINE FOR STATE APPROVAL DECEMBER 31, 2025

Meeting	Date	Notes
PC Briefing	April 24 <sup>th</sup>	Introduction to CAO Requirement Brief
PC Study Session	May 22 <sup>nd</sup>	Introduction to CAO Requirement Brief Present Wetland related BAS updates and some code amendments for review
CC Briefing	June 17 <sup>th</sup>	Introduction to CAO Requirement Brief
PC Study Session	June 26 <sup>th</sup>	Review BAS and draft code amendments for Streams and Fish and wildlife Habitat
PC Study Session	July 17th	Review Chapter 85 and miscellaneous Chapter 90 amendments
PC Code Amendment Public Hearing	July 24 <sup>th</sup>	Receive public testimony; PC to deliberate on recommendations to Council.
CC Study Session	September 2	Review major changes
PC Reserve meeting	Sept 25th	Provide solutions per council review
CC Reserve meeting	October 21st	Return to address questions and finalize code amendments
CC Final Adoption	November 18	Final adoption

# Discussion and Questions

What additional information would the PC like to see when presented with update options at future meetings?

Does the PC have comments on the proposed research options? Are there questions PC would like to have answered before making decisions?

Does the PC have any questions on feedback on the proposed approach to the CAO update?

Does the PC have comments or suggestions on the proposed public outreach plan?

# Wetland Related Updates

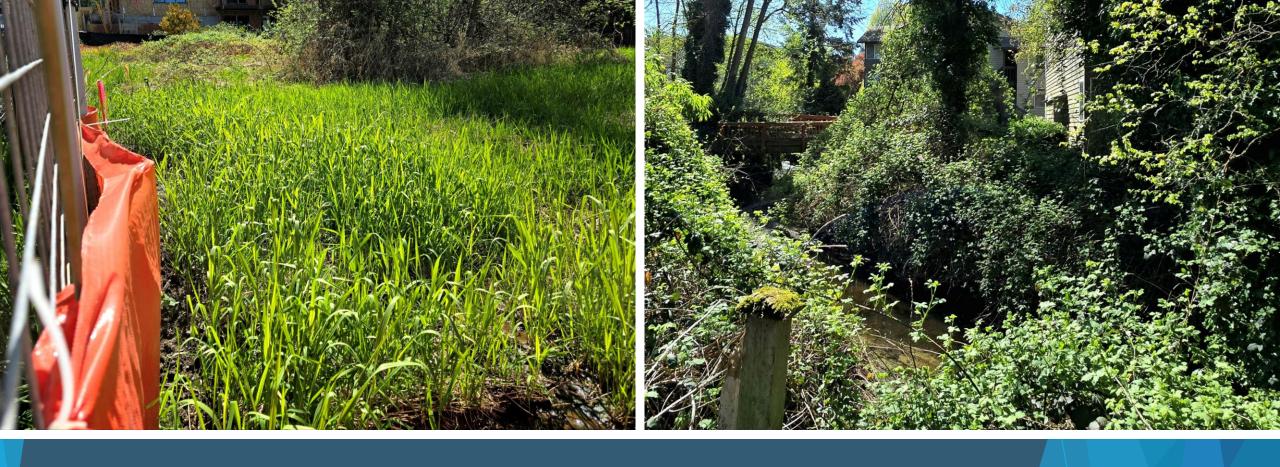
- Add wetland related definitions to KZC 5: No Net Loss, Critical area buffer, Wetland Habitat points/Value, Waters of the State
- Clarity updates through out 90: Examples provided in Attachment 4
- Update Tables to meet State Recommendations and for Clarity.
  - Wetland recommendations come from Washington Department of Ecology, Army Corp or Engineers and Department of Commerce.
  - ► Kirkland's wetland code meets minimum requirements

# Wetland Updates

"Critical areas are not meant to be altered to accommodate development—rather, development must be designed to avoid impacts to critical areas"

# Mitigation Sequencing KZC 90.145 WAC 365-196-830, WAC 365-190-080

Avoiding	Avoiding the impact altogether.	
Minimizing	Minimizing impacts by limiting the degree or magnitude of the action.	
Rectifying	Rectifying the impact by repairing, rehabilitating, or restoring.	
Reducing or Eliminating	Reducing or eliminating the impact over time by preservation and maintenance operations.	
Compensating	Compensating for the impact by replacing, enhancing, or providing substitute resources or environments.	
Monitoring	Monitoring the impact and taking appropriate corrective measures.	



#### WETLANDS

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# 90.55 Wetlands and

## **Associated Buffer Standards**

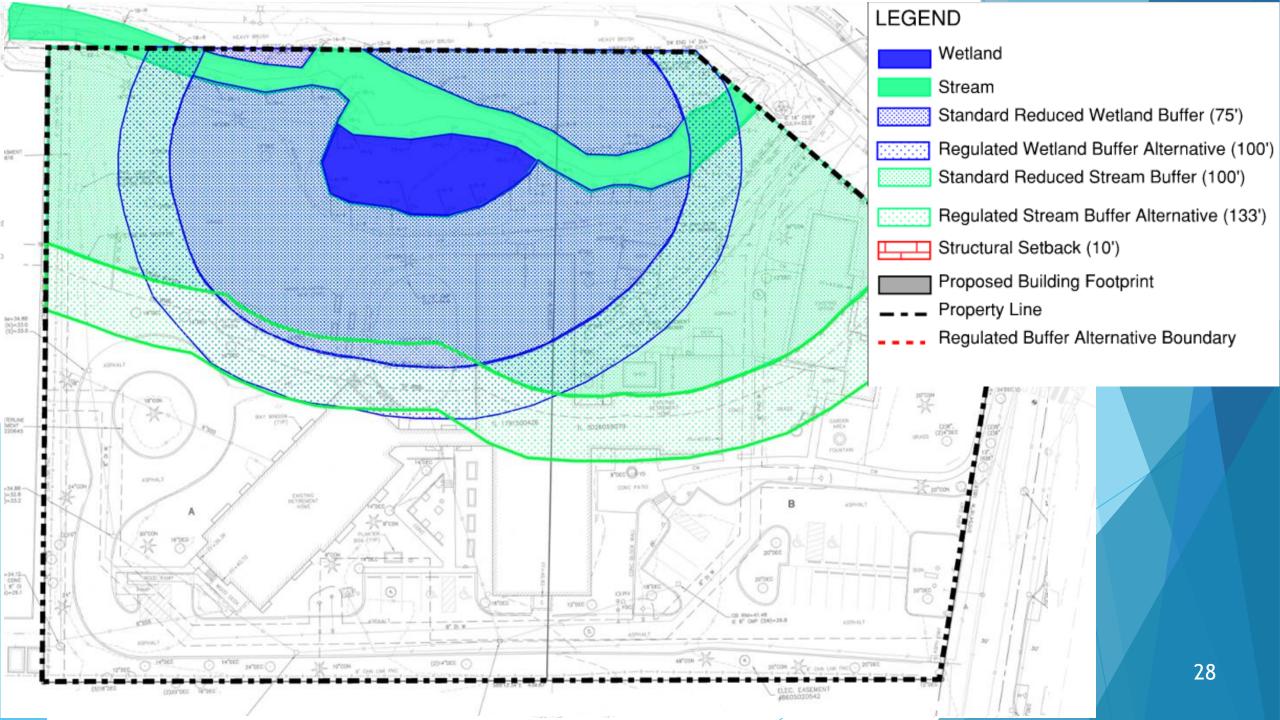
- Remove Tables from within tables
- Change language to reflect buffer requirements

#### 90.55 Wetlands and Associated Buffer Standards

Wetlands and associated buffer standards are provided in this section. The table below is a summary of the wetland regulations. More details are provided for some of the regulations elsewhere in this chapter.

#### Table 90.55.1 Wetlands and Associated Buffer Standards

	KZC <u>90.110</u> . In addition buffer vegetative stand Wetland Buffer Widt		makes determin	ation if the stand	dard buffer meet
	Wetland Buffer Widt		_		
Width Standard		Wetland Category			
1			Buffer Wid	lth Based on Hab	oitat Points
			3-5 habitat pts.	6-7 habitat pts.	8-9 habitat pts.
		Category I: Bogs and Wetlands of High Conservation Value	190 feet	190 feet	225 feet
		Category I: Others	75 feet	110 feet	225 feet
		Category II	75 feet	110 feet	225 feet
		Category III	60 feet	110 feet	225 feet
	Category IV 40 feet				
	See KZC <u>90.130</u> for buffer vegetation requirements				
Width Alternative	Applicant can choose not to comply with the vegetative buffer standards in KZC 90.130 by complying with the following requirements: 1) Increase buffer width listed above in Wetland Buffer Widths by 33% within entire buffer. 2) Remove all structures and improvements within the buffer. 3) Discontinue any maintenance of lawn and nonnative vegetation within the buffer. 4) Cease all activities in the buffer, except those permitted under KZC 90.35(12) and (13). In no case shall a standard and an alternate buffer standard be combined for a development proposal.				
Other Standards	Buffer averaging is permitted for both the standard buffer and the alternative buffer if criteria are met. See KZC 90.115.				
	Increased buffer width may be required if wetland or its buffer contains or is adjacent to severe erosion area, habitat of certain species or frequently flooded area based on critical area report. See KZC 90.125.  Wetlands that are degraded must be restored if the project is subject to KZC				



# 90.55 Wetlands and Associated Buffer Standards

- Remove Tables from within tables
- Change language to reflect buffer requirements
- Add a second table clarifying the "Regulated buffer width" previously defined as the 33% increase

Table 90.55.1	<b>Standard</b>	Reduced	Wetland Buffer Widths

Watland Catagony	Standard Reduced Buffer Width Based on Habitat Points			
Wetland Category	3-5 habitat pts.	6-7 habitat pts.	8-9 habitat pts.	
Category I: Bogs and Wetlands of High Conservation Value	190 feet	190 feet	225 feet	
Category I: Others	75 feet	110 feet	225 feet	
Category II	75 feet	110 feet	225 feet	
Category III	60 feet	110 feet	225 feet	
Category IV	40 feet			
	See KZC 90.130 Vegetative Buffer Standards, 90.19 90.150, 90.155 apply with buffer width reductions			
	30.130, 30.13	o apply with buller w	natif reductions	

#### Table 90.55.2 Regulated Buffer Width Alternative

	Regulated Buffer Width Based on Habitat			
Wetland Category	<u>Points</u>			
Violatia Gatogory	3-5 habitat	<u>6-7 habitat</u>	8-9 habitat pts.	
	<u>pts.</u>	<u>pts.</u>	O O Habitat pto.	
Category I: Bogs and Wetlands of High	250 feet	250 feet	300 feet	
Conservation Value				
Category I: Others	100 feet	<u>150 feet</u>	300 feet	
Category II	100 feet	<u>150 feet</u>	300 feet	
Category III	<u>80 feet</u>	<u>150 feet</u>	300 feet	
Category IV		50 feet		
	Qualifies for bu	<u>iffer averaging, a</u>	nd no mitigation	
		<u>requirements</u>		

# Table 90.155.1 Measures to minimize impacts to wetlands and Associated buffers

- Combined table from Department of Ecology 2022 with KZC table 90.155.1
- Improve planning team's ability to communicate and assess regulations
- Intent to reduce pollution to the critical area and its buffer.
- Light, Noise, Toxic runoff, Stormwater runoff, Pet and Human, air pollution
- Table is not static and innovative ideas to reduce disturbance should be encouraged

#### Table 90.155.1 Proposed Amendments:

Any additional activity or use identified to cause disturbance may require a review and implementation of measures to minimize that disturbance. Some example measures may not apply to correlated activities or may not be feasible for the site. Unique activities and disturbances not included in the table may require alternative measures to minimize the identified impacts.

Examples of disturbance	Activities and uses that cause disturbances	Examples of Required measures to minimize impacts	
Lights	Parking lots     Commercial     Industrial     Residential     Recreation (e.g., athletic fields)     Agricultural buildings  All Lighting shall complete.	Direct lights away from wetland     Only use lighting where necessary for public safety and keep lights off when not needed     Use motion-activated lights     Use full cut-off filters to cover light bulbs and direct light only where needed     Limit use of blue-white colored lights in favor of red-amber hues     Use lower-intensity LED lighting     Dim light to the lowest acceptable intensity  In with regulations in Chapter 115 KZC.	
Noise	Parking lots Drive-through facilities Commercial Industrial Recreation (e.g., athletic fields, bleachers, etc.) Residential Generators and Hvac units Agriculture	Locate activity that generates noise away from wetland     Minimize noise through design measures:     Construct a fence to reduce noise impacts on the adjacent wetland and buffer. Fence must comply with KZC 115.40 regulations     Plant a strip of additional dense shrub vegetation adjacent to wetland buffer     Install other insulation techniques	
	Activities or uses that generate relatively continuous, potentially disruptive exterior noise, such as industrial, manufacturing and repair services, shall provide an additional 10 feet in width of heavily		
	vegetated buffer strip immediately adjacent to the outer wetland buffer that meets the requirements of KZC 95.42.1, Buffer Standard 1.		

# What to Expect Next

- Continue to streamline and clarify wetland related code using the Planning department's expertise, cross-referenced with Department of Ecology recommendations
- Coordinate requests and recommendations from other city departments
- Include review from On Call wetland consultant for clarity and process
- Cross-reference the edits with other sections of KZC 90 and KZC 83
- Bring all Wetland clarity edits together for final PC review
- ▶ Return to PC to focus on Streams, Fish and Wildlife Habitat and Floodplains

### Any Thoughts, Questions or Considerations?