

FLOODPLAIN RESILIENCE PLAN

Planning and Sustainability Hearing September 27, 2022

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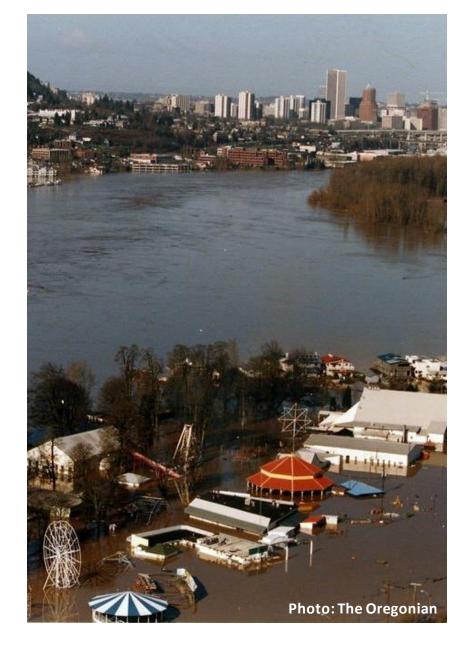
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Manager II, Regulatory Strategy & Remediation, BES



Agenda

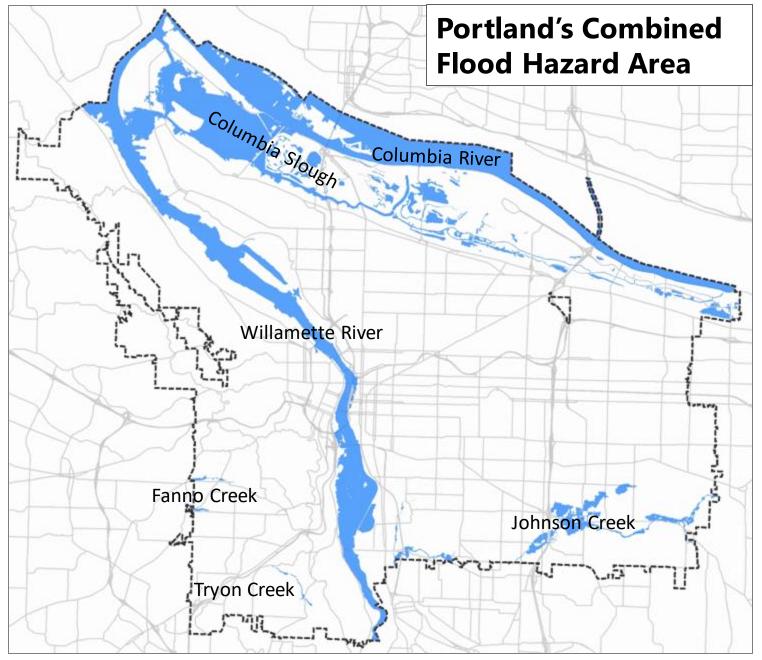
- I. Floodplain Resilience Plan: Proposed Draft (Review)
- II. Proposed Draft Outreach
- III. Testimony to Date
- IV. Staff Recommendation





Floodplain Resilience Plan: Proposed Draft







Combined Flood Hazard Area

Will include three areas:

- FEMA 100-year floodplain
- Metro 1996 Flood Inundation Area

AND

 New Modeled Willamette River 1996 Flood Extent





Floodplain Resilience Plan

Zoning Code Updates

- Add riparian buffer area requirements to Willamette Central Reach
- Apply environmental zoning to all undeveloped floodplains
- Update tree and vegetation requirements in floodplains
- Some technical amendments





Stakeholder Engagement on the Proposed Draft

City staff responded to

50 calls and 15 emails

Questions/Topics

- Mostly clarifications on proposals
- Concern about the potential implications of building code updates
- Questions about riparian buffer area requirements
- Requests for addressing propertyspecific characteristics



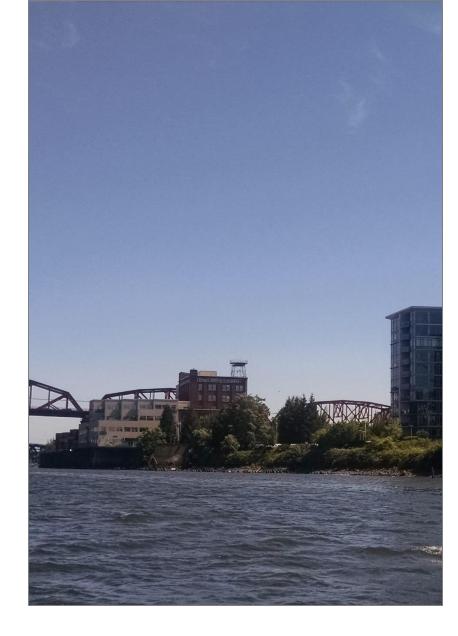
Testimony to Date

Written Testimony

28 pieces of testimony

Testimony includes

- Support for plan
- Questions on timing of Title 24 project
- Urgency on applying requirements to industrial lands





Mitigation & Banks

Mitigation Requirements

- Avoid-minimize-mitigate
- On-site mitigation prioritized

Mitigation Banks

- No available habitat mitigation banks
- Potential future bank at OMSI/ Eastbank Crescent
- Flood storage capacity mitigation key for building code project





Proposed PSC Recommendation

- City Council adopt proposed Zoning Code amendments and the official zoning map. Key updates for:
 - 33.430, Environmental Zones
 - 33.510, Central City Plan District
 - 33.851, South Waterfront Greenway Review
 - 33.865, River Review
 - 33.910, Definitions
- Adoption of a resolution for Floodplain Resilience Plan Action Plan



Background

- FEMA compliance deadline expected to be early 2027
- City engaged in the work since 2016
- Supported by many Comp Plan goals and policies
- City's multi-step work plan aligns with FEMA compliance
- Inter-bureau team meets periodically with FEMA





Parcels Effected, by **Zoning Designation**

Zoning Category	# Tax Lots	%	Acres	%
Commercial/Mixed Use	207	13.9%	469.0	7.6%
Employment/Industrial	53	3.6%	100.8	1.6%
Single Dwelling Residential	570	38.4%	866.9	14.1%
Multi-Dwelling Residential	139	9.4%	221.8	3.6%
Campus Institutional	4	0.3%	113.2	1.8%
Open Space	509	34.3%	4,281.5	69.6%
Multnomah County	3	0.2%	100.3	1.6%
TOTAL	. 1,485	100%	6,153.4	100%



Schedule

Proposed Draft

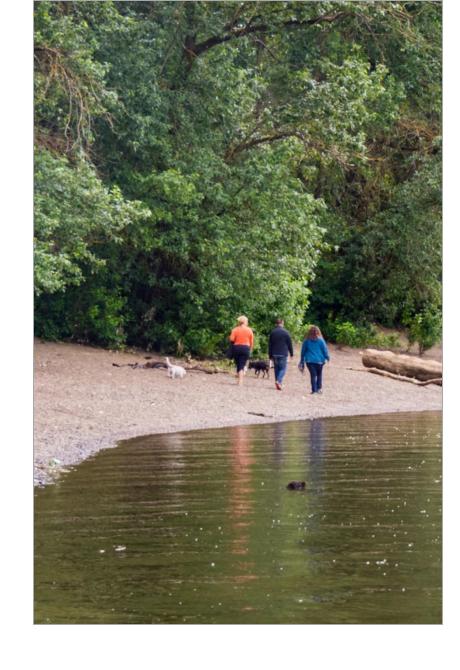
Sept 27, 2022 – Public Hearing

Oct 25, 2022 – Work session

Nov 22, 2022 – Work session/ Recommendation (tentative)

Recommended Draft

Spring 2023 – City Council

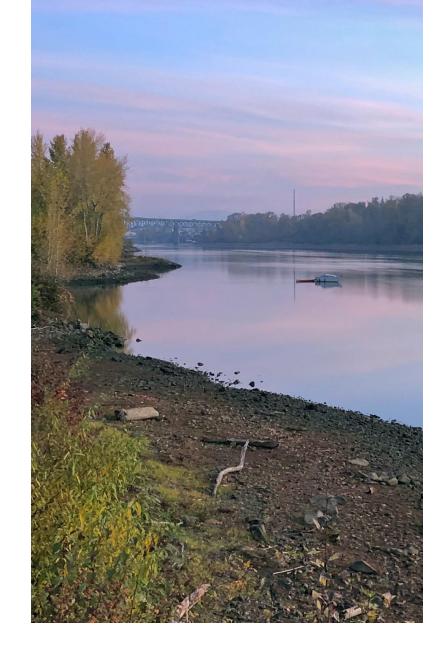




Public Testimony

Floodplains and their Benefits

- Slow and store floodwaters
- Reduce surface runoff and siltation into waterway
- Provide off-channel respite, refugia and diverse food sources for juvenile fish





FEMA's National Flood Insurance Program (NFIP)

- Provides flood insurance in floodplains
- Minimum requirements must be met
- Additional Community Rating System (CRS) participation reduces insurance rates

National Flood Insurance Program (NFIP) Biological Opinion

- Determined 16 threatened and endangered salmon and steelhead impacted
- FEMA Implementation Plan to comply with the Biological Opinion released in October 2021

Floodplain Management Update 2019 Work Plan

Agreement signed by 8 bureaus

Three key task areas:

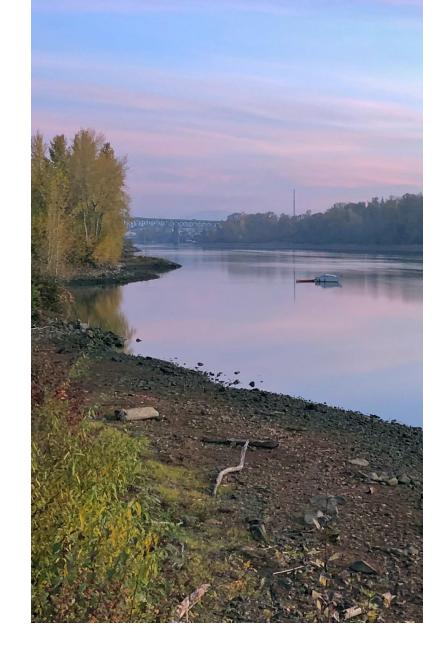
- 1. Regulations
- 2. Restoration
- 3. Mitigation banks





Plan Components

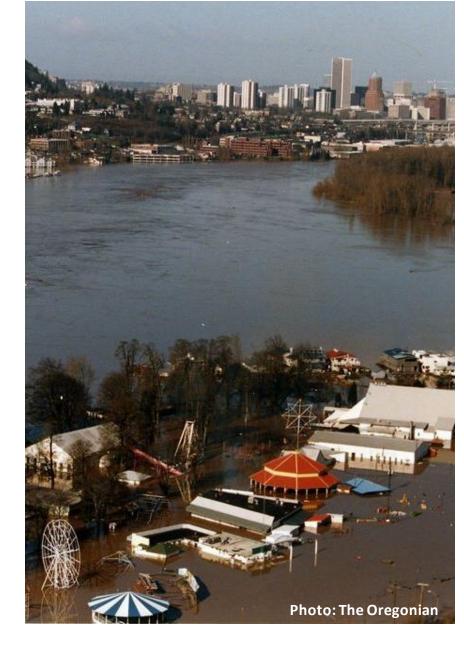
- Incorporate new Willamette River flood risk modeling into flood hazard maps
- Update the Zoning Code to address habitat impacts
- Support the City's mitigation and restoration efforts





Modeled Willamette River 1996 Flood Extent

- Based on U.S. Army Corps of Engineers model of the Lower Willamette River
- City staff simulated a 1996 flood-like event with current conditions and development

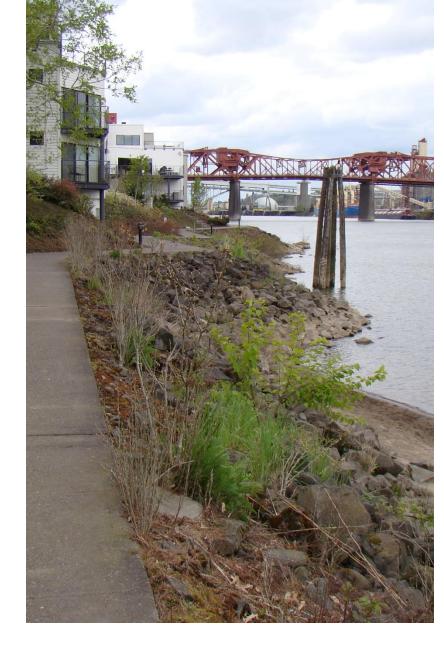




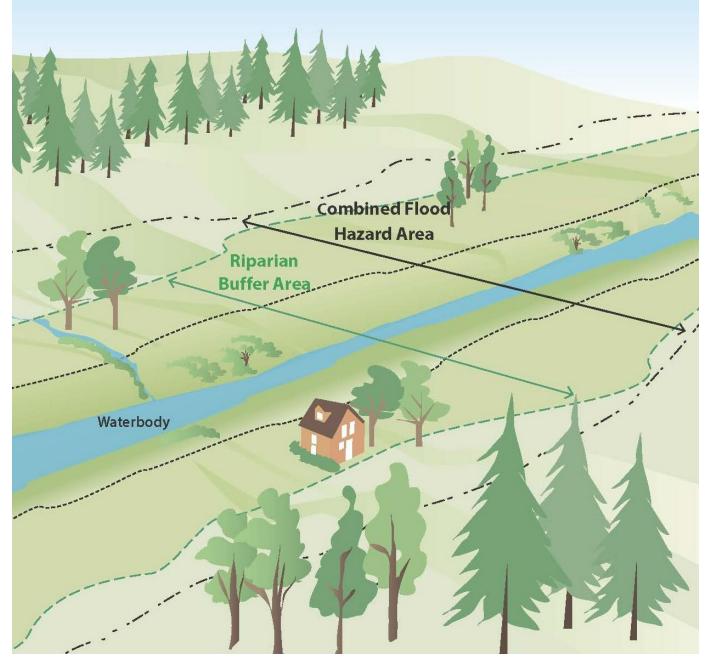
Related Floodplain Management Efforts

Building Code Updates

- Require excavation for fill and structures
- Increase excavation to offset development along the river



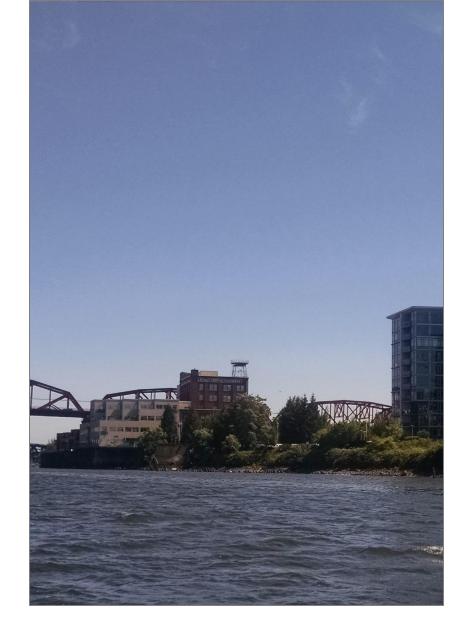






Willamette River Central Reach

- Add riparian buffer area requirements near Willamette
- Expand River Environmental to include riparian buffer area and undeveloped floodplains





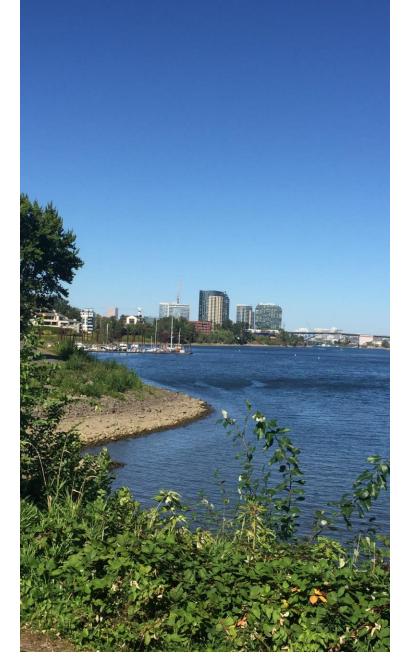
South Waterfront

New Requirements/Allowances

- Tree replacement standards
- Minor updates to exterior lighting standards
- Adjustments and modifications for exterior lighting

Code Clean up

 Reorganization of South Waterfront Greenway Overlay Zone section for clarity





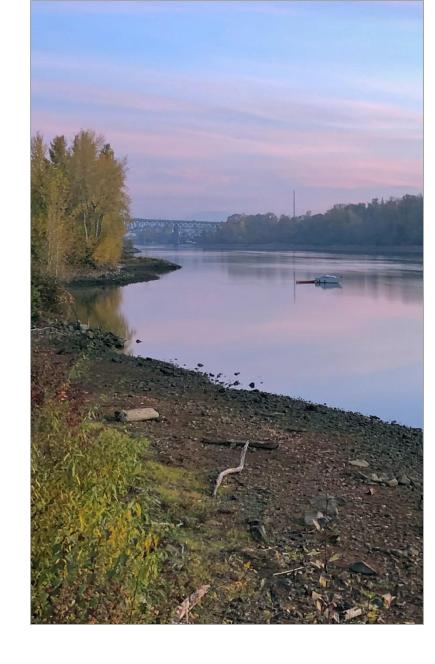
Willamette River South Reach

Modeled Willamette River 1996 Flood Extent

 Update extent of riparian buffer and River Environmental overlay

River Environmental

 Landward of riparian buffer area and 100 feet of top of bank





Elsewhere in the City

Floodplains in the Environmental overlay zone

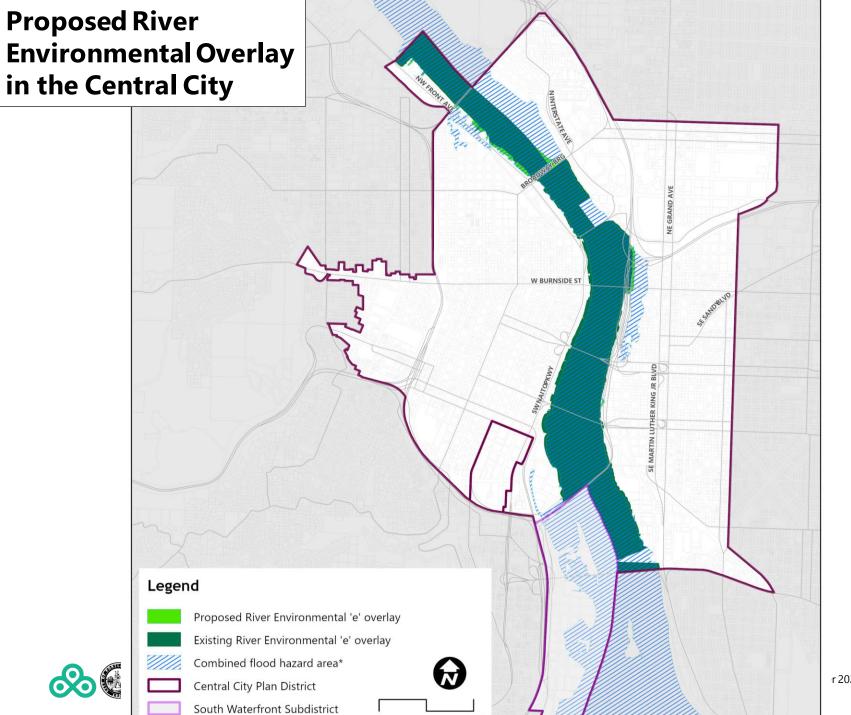
 Update tree and vegetation replacement

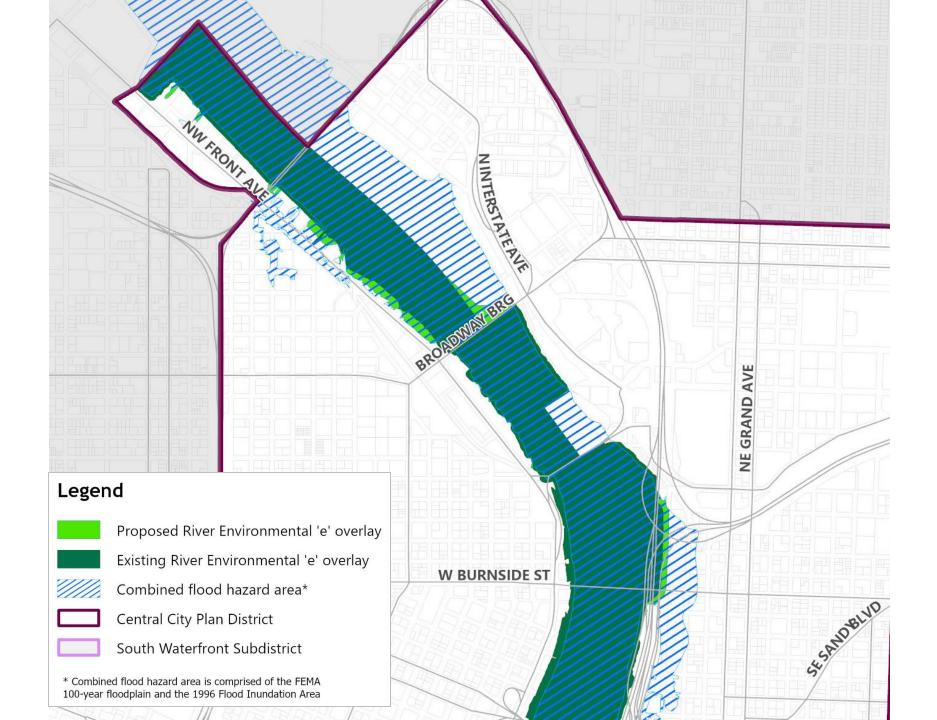
Fanno Creek and Tryon Creek

 Apply Environmental Conservation overlay to undeveloped floodplain









More Information

Visit our website : https://www.portland.gov/bps/envi-ron-planning/floodplain-project

Or get parcel-specific information on our Map App: https://www.portlandmaps.com/bps/floodplain/#/map/



