

# **Meeting Objectives**

Present proposed code changes for the Watershed Protection Ordinance (WPO Phase 1).

Present the full WPO schedule.

Gather stakeholder feedback on main items for further discussion.

# **Meeting Agenda**

- Introductions [5 min.]
- Staff Presentation [90 min.]
  - > WPO Council Resolution & Imagine Austin context\*
  - 1. Creek Protection
  - 2. Floodplain Protection
  - 3. Development Patterns & Greenways
  - **4. Improved Stormwater Controls**
  - 5. Mitigation Options
  - 6. Simplify Regulations where possible; Minimize Impacts to Develop Land
  - 7. Work with Travis County and neighboring communities
- Full Group Feedback / Wrap-Up [25 min.]
  - Next Steps/Schedule

# **Imagine Austin Priority Programs**

1. Invest in Compact & Connected

8. Align Code

3. Workforce Development

**5. Creative Economy** 

2. Sustainably Manage Water Resources

4. Green Infrastructure

6. Household Affordability

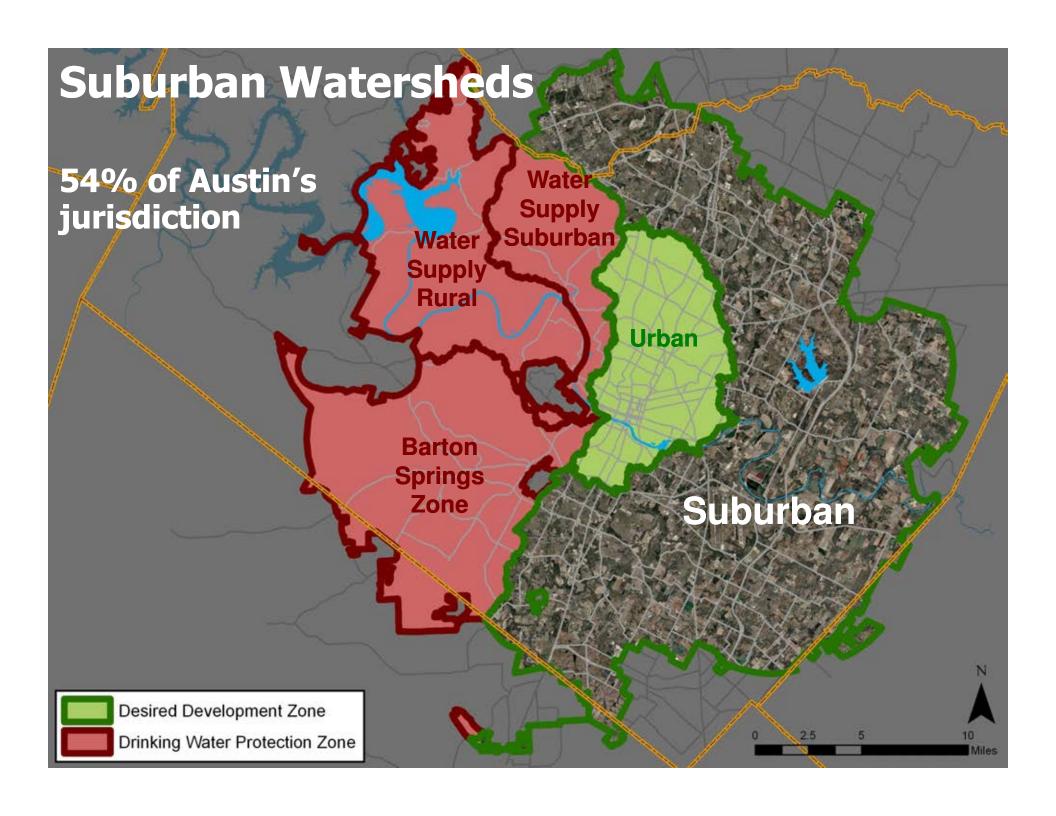
7. Healthy Austin

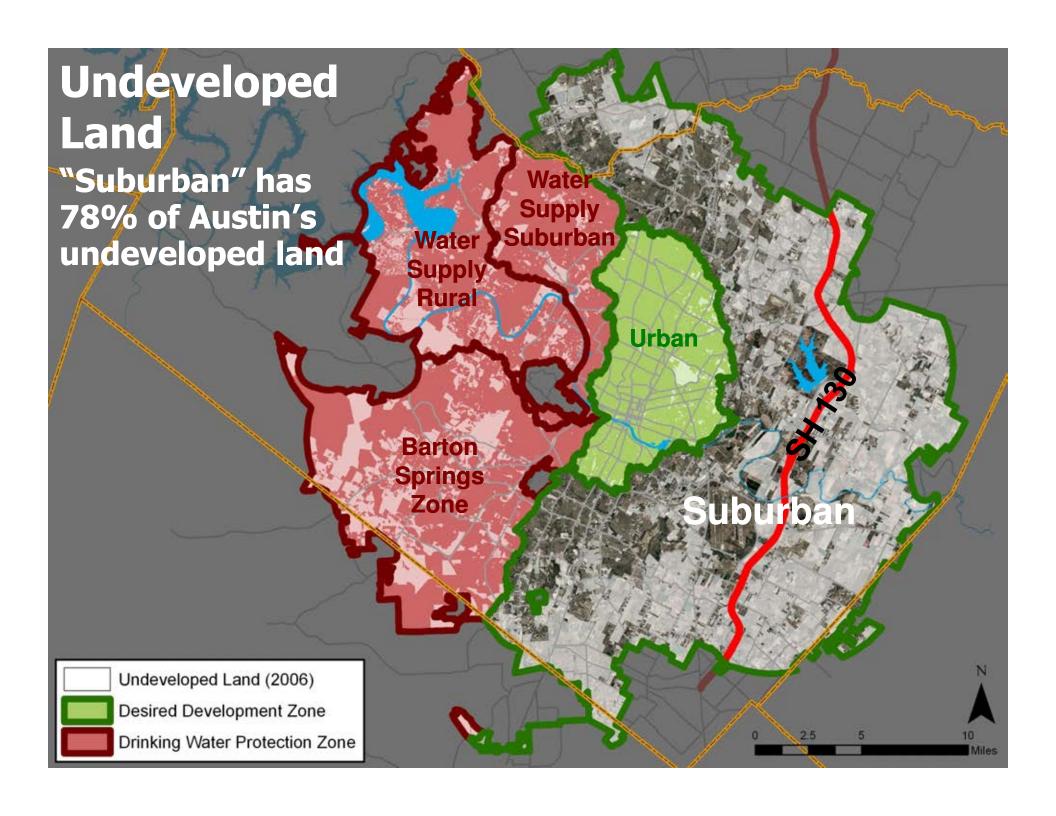


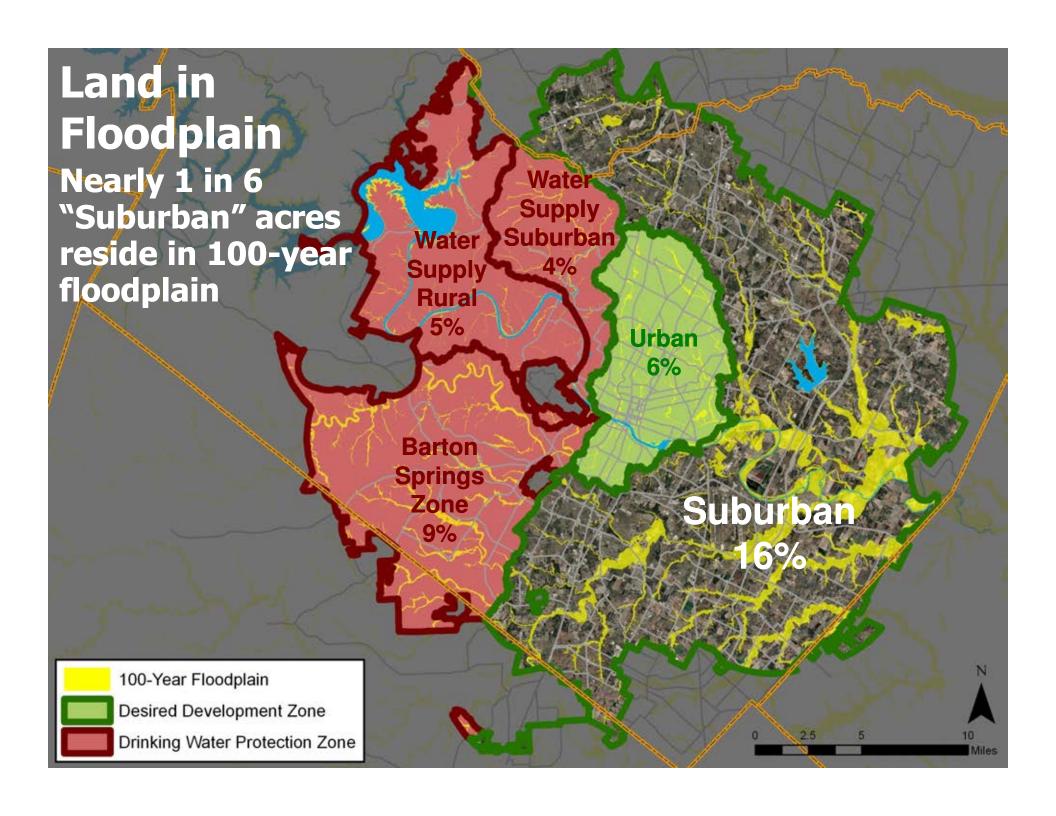


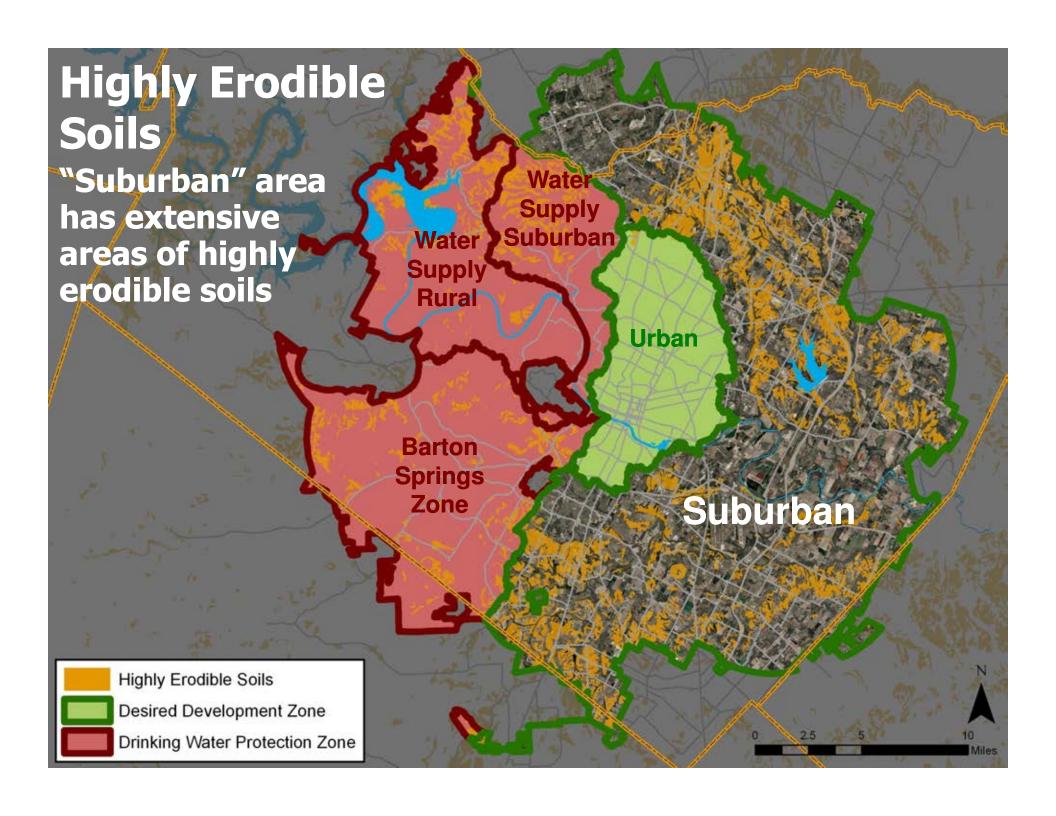
# **Key Themes**

- Importance of riparian areas & floodplains
- Lessons learned in Austin & beyond
- Prevention is affordable; repairs are not
- Best watershed science needed
- Simplicity and complexity
- A sustainable future: green infrastructure; compact development; connectivity; health
- Balance environmental protection & development opportunity









#### **Proposed Code/Criteria to Revise**

- LDC 25-8 Environment
- LDC 25-7 Drainage
- Title 30-5 ETJ Environment
- Title 30-4 ETJ Drainage
- LDC 25-2 Zoning
- LDC 25-1 General Requirements
- Environmental Criteria Manual
- Drainage Criteria Manual

**LDC** = Land Development Code

# **Description of Phases**

#### Phase 1

 Main components of resolution discussed during the stakeholder process (e.g., headwater buffers, floodplain protection)

#### Phase 2

- Structural stormwater control options (volume-based hydrology, pay-in-lieu, etc.)
- Mitigation
- Redevelopment options

#### Phase 3

- Imagine Austin Code Revisions
- Centers & Corridors

"Improve stream buffer requirements, including critical headwater areas, to protect water quality and reduce erosion, flooding, and long-range costs for infrastructure maintenance."



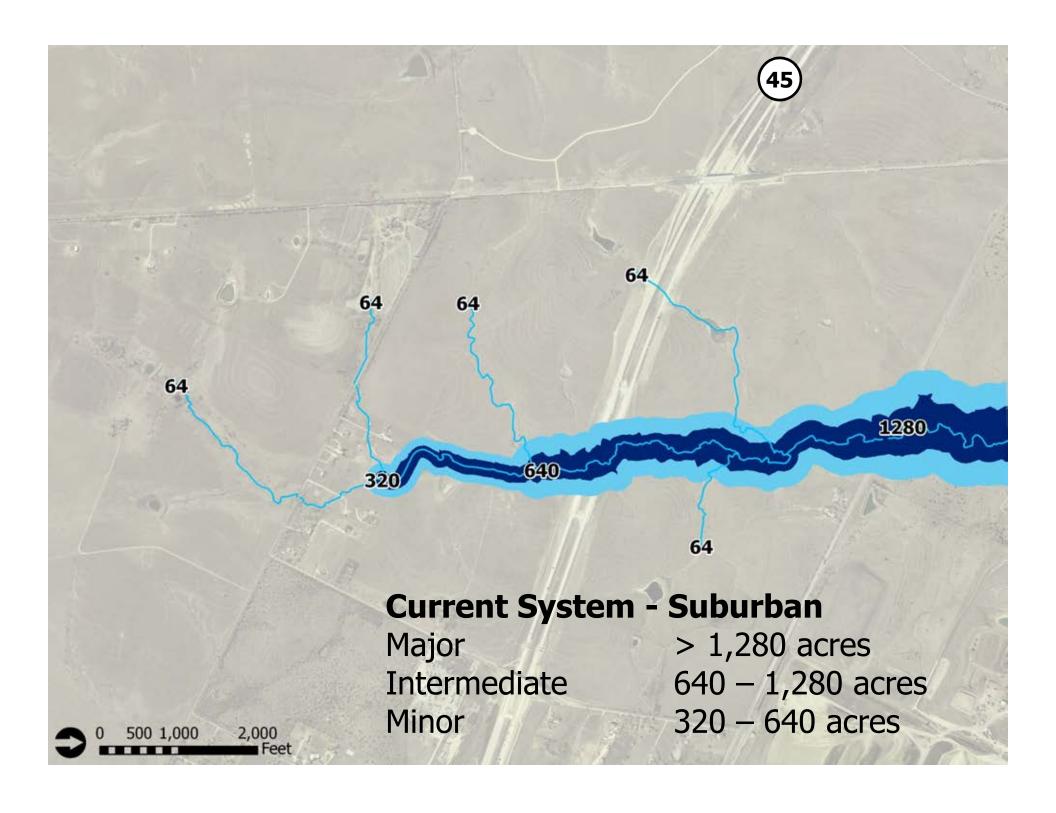
 Extend minor "headwater" stream buffers to 64 acres of drainage citywide

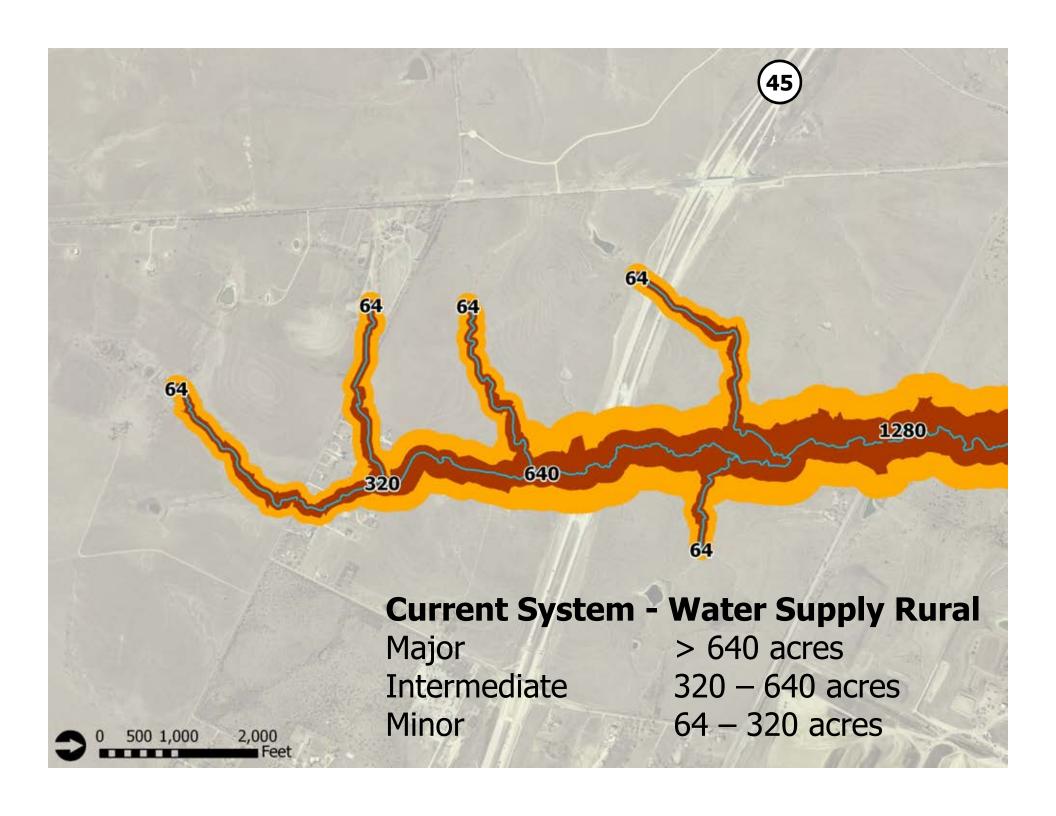
§25-8-91

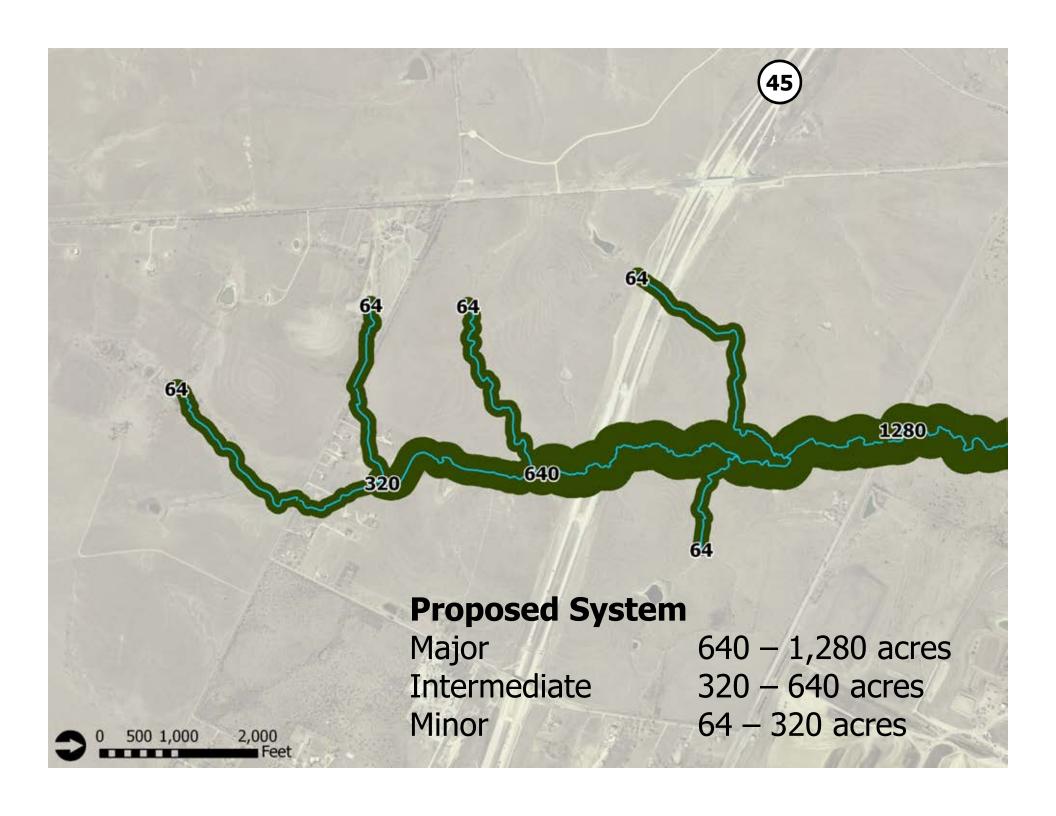
- Standardize Critical Water Quality Zone (CWQZ) buffer drainage area thresholds citywide:
  - 64 ac. 320 ac. drainage area (minor)
  - 320 ac. 640 ac. drainage area (intermediate)
  - > 640 ac. drainage area (major)

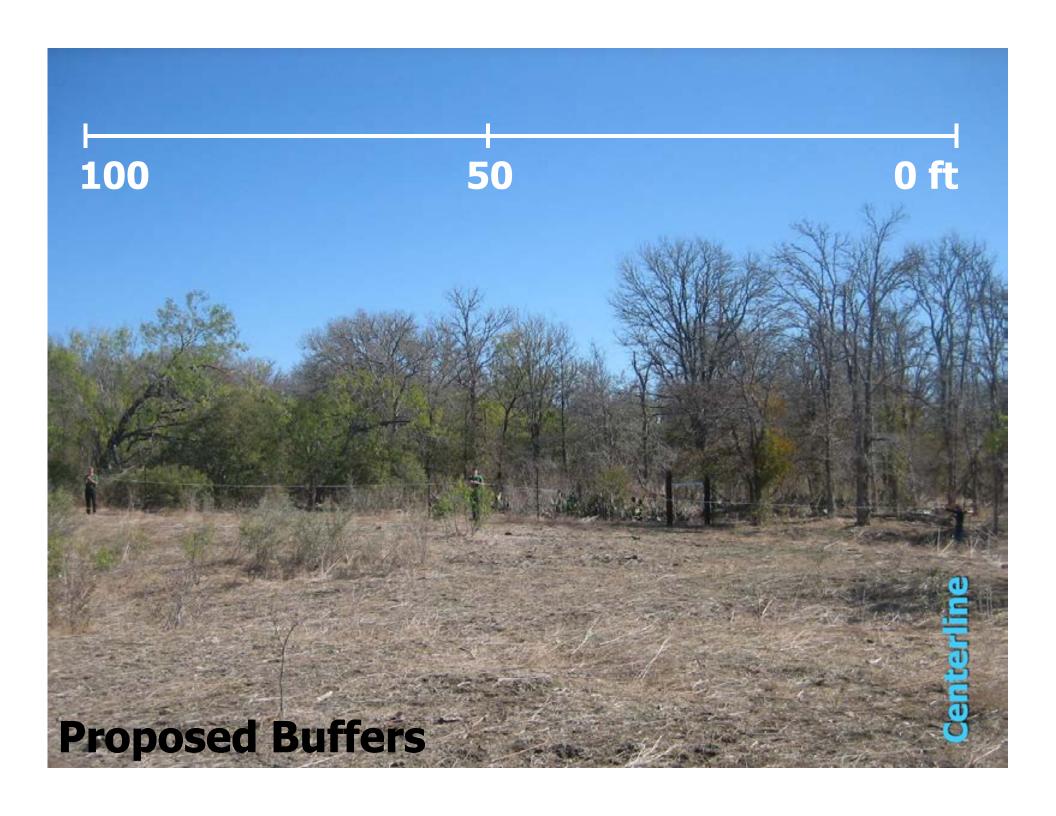
**§25-8-91** 

- Simplify CWQZ buffer widths in Urban & Suburban watersheds:
  - 100 feet (minor)
  - 200 feet (intermediate)
  - 300 feet (major)





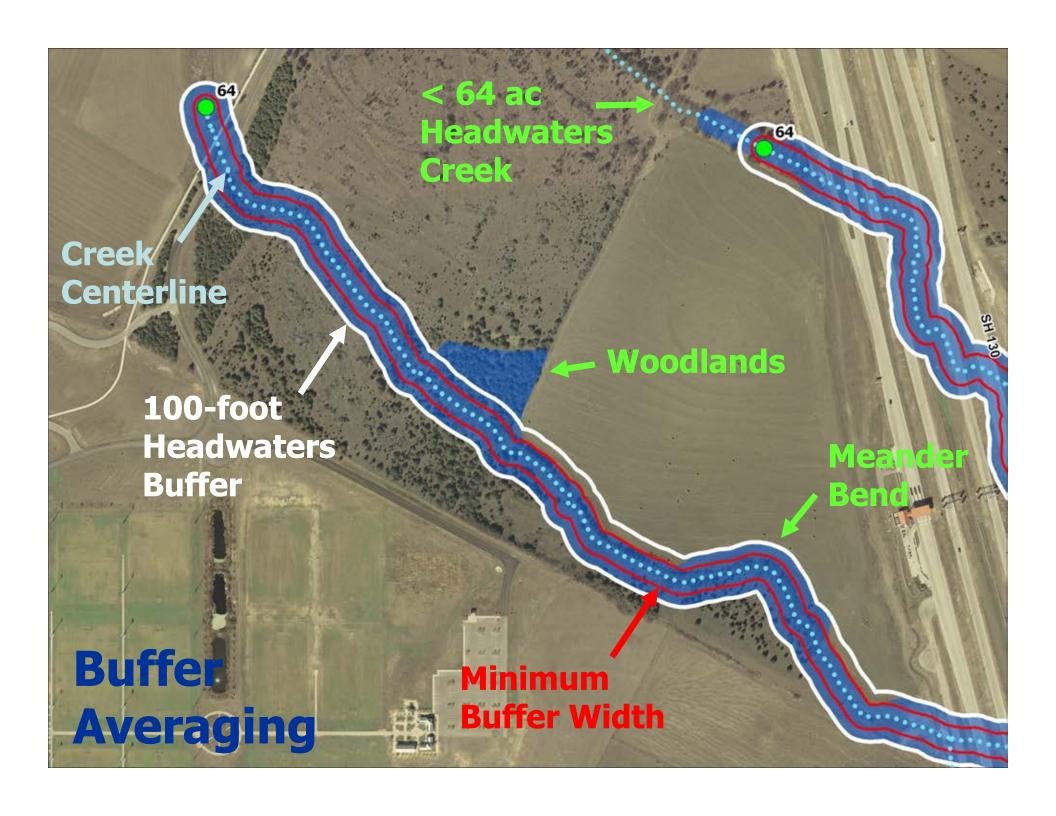




- Eliminate Water Quality Transition Zone buffers in Suburban watersheds (like Urban)
- Use Gross Site Area basis for impervious cover in Suburban watersheds (discontinue Net Site Area)

§25-8-392

 Allow "buffer averaging" in Urban & Suburban watersheds to reduce buffers by up to one-half if the overall area protected remains the same



 Allow "green" water quality controls in the upper half of CWQZ buffers (but out of 100-yr floodplain) in Urban & Suburban watersheds

- Allow utility lines in the upper half of CWQZ buffers (but out of the erosion hazard zone) in Urban & Suburban watersheds
- Adjust street crossing requirements: allowances for crossings in centers & corridors as identified in Imagine Austin

# **Additional Changes**

Allow multi-use trails in the CWQZ

§25-8-261

Allow community gardens & sustainable urban agriculture in the CWQZ

§25-8-261

- Exclude managed golf course areas from the CWQZ
- Additional CWQZ uses for master-planned parks in Water Supply Rural areas
- Utility crossing requirements (direct path, outside erosion hazard zone)
- Disallow small single-family lots in the CWQZ

# **Additional Changes**

Critical Zone exemptions for roadside ditches

§25-8-92

Eliminate crest of bluff exception

§25-8-92

Water quality controls within WQTZ in water supply watersheds

§25-8-422, 452

 Clarification of lot requirements for water supply rural watersheds

# **Elements Not Changing**

- Retain current CWQZ buffer widths in Drinking Water Protection Zone
- Retain WQ Transition Zone buffers in Drinking Water Protection Zone
- Retain Net Site Area in Drinking Water Protection Zone
- No buffers within Downtown area
- No change to buffers on lakes or Colorado River

#### **Future Phases**

#### Phase 2 (Spring 2012)

- Establish erosion hazard zone (EHZ) protections
   §25-7-6
- Modify redevelopment exception to consider minimum stream setback & disallow additional non-compliance
- Improvements to the Open Channels section of the Drainage Criteria Manual

  DCM Chapter 6

#### **Phase 3 (Imagine Austin Revisions)**

 Consider options for centers & corridors (see Mitigation below) "Promote, encourage and/or require the preservation and restoration of floodplains and stream buffers as well as the beneficial re-purposing of mining quarries."



- Adjust definition of "natural & traditional character" to protect & enable the recovery of degraded waterways
- Add new floodplain modification section to Code
  - Disallow modification in the Critical Water Quality Zone and areas with existing natural and traditional character
  - Sites proposing modification must restore natural and traditional character and design for both existing and fully-vegetated conditions
  - Exceptions for cases of protecting the environment or public health & safety as well as for development allowed within the CWQZ (e.g., crossings, trails, etc.)

# **Additional Changes**

 Transfer of Development Rights (TDR) credit for upland floodplain (and/or other environmentally sensitive areas)

Remove conflicting storm drain requirements

25-8-185; §25-7 (spring)

#### **Future Phases**

#### Phase 2 (Spring 2012)

Flood mitigation options for redevelopment

**DCM** 

 Mannings-n changes in DCM (relates to vegetation management along creeks)

**DCM** 

 Make improvements to the Floodplain Modification guidelines in the Environmental Criteria Manual

**ECM** 

#### **Phase 3 (Imagine Austin Revisions)**

 Consider options for centers & corridors (see Mitigation Options below)

# Development Patterns & Greenways

"Explore opportunities to encourage a development pattern that better protects public and private property, preserves floodplains, creeks and open spaces, and provides access and connectivity with greenways and trails."



# atterns Developme

# **Major Changes**

 Align definitions of impervious cover for zoning and watershed regulations

Add exemptions to impervious cover calculations:

Public multi-use trails

Porous pavement for pedestrian walkways

Interlocking pavers for fire lanes

§25-8-63

Eliminate the Boundary Street Deduction

§25-8-65

Limit interbasin transfers

# **Patterns** Development

#### **Future Phases**

#### Phase 2 (Spring 2012)

 Add environmental superiority options for Planned Unit Developments (PUDs)

§25-2, Art. 2, Div. 5, 2.4

- Evaluate potential credit for vehicular porous pavement and artificial turf
- Modify and potentially expand the redevelopment exception to improve both redevelopment opportunities and environmental protection

#### **Phase 3 (Imagine Austin Revisions)**

 Evaluate impervious cover limits in Suburban watersheds

# Improved Stormwater Controls

"Improve permanent stormwater controls to better moderate runoff and help reduce streambank erosion."



Require Water Quality (WQ) controls for projects
with over 8,000 sq. ft. of impervious cover
(instead of 20% IC trigger)

Allow potential for "stacking" WQ & flood detention volumes in one pond

§25-8-213

Require maintenance plan & third-party inspections for subsurface controls

# **Additional Changes**

- Clarification of innovative management practices (water quality controls vs. CEFs)
- Require ponds to be accessible for maintenance and inspection
- Allow wet ponds within the CWQZ outside of the Barton Springs Zone
- Remove code barriers to incentivize green infrastructure

  §25-2-1062, 1063 (Spring)

#### **Future Phases**

#### Phase 2 (Spring 2012)

- Evaluate capture volume and performance standards for water quality controls
- Evaluate expansion of payment-in-lieu and cost recovery systems for water quality controls
- Evaluate changes to Dedicated Fund for water quality monitoring and maintenance

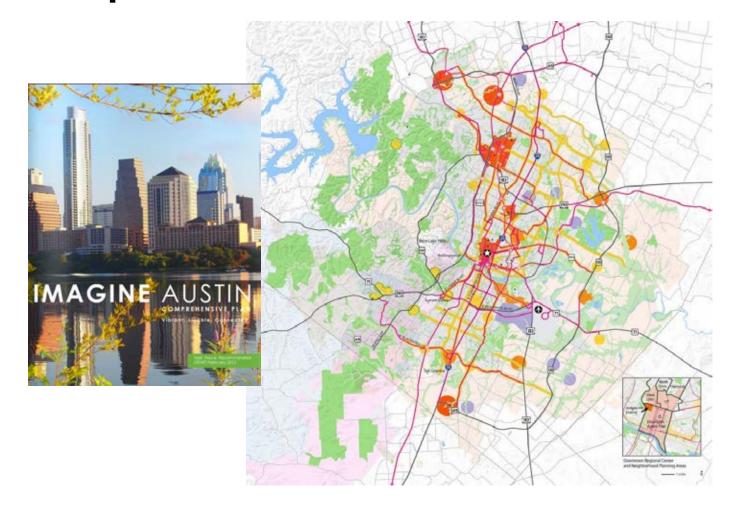
  25-8-232
- Water quality control options for Downtown 25-8-213
- Evaluate expanded credits for:
  - vehicular porous pavement
  - rainwater harvesting, and
  - rain gardens (BSZ and single-family)
- Limit wet pond application based on geology, soils

**ECM** 

**DCM** 

Add volumetric detention option to DCM

"Explore better ways to regulate the modification of floodplains, including options for off-site mitigation for developments in areas that are planned for higher density developments."



#### **Future Phases**

#### **Phase 3 (Imagine Austin Revisions)**

- Consider redefining the Desired Development Zone to align with the centers & corridors identified by Imagine Austin
- Consider mitigation options for centers & corridors
- Evaluate expansion of transfer of development rights (TDR) system
- Consider strengthened cut & fill and steep slope protections for areas outside of centers & corridors

"Simplify development regulations where possible and minimize the impact of any changes on individual and collective abilities to develop land."

ELEMENT	DESIRE	DESIRED DEVELOPMENT ZONE		DRINKING WATER PROTECTION ZONE		
		Suburban	Suburban	Water	Water	Barton
	Urban	City	N. Edwards/	Supply	Supply	Springs
		Limits	ETJ	Suburban	Rural	Zone
Watershed Classification						
Minor	64 ac.	320 - 640 ac.	320 - 640 ac.	128 - 320 ac.	64 - 320 ac.	64/128 - 320 ac.
Intermediate	64 ac.	640 - 1280 ac.	640 - 1280 ac.	320 - 640 ac.	320 - 640 ac.	320 - 640 ac.
Major	64 ac.	over 1,280 ac.	over 1,280 ac.	over 640 ac.	over 640 ac.	over 640 ac.
<b>Critical Water Quality Zone</b>						
Minor	50 - 400 ft.	50 - 100 ft.	50 - 100 ft.	50 - 100 ft.	50 - 100 ft.	50 - 100 ft.
Intermediate	50 - 400 ft.	100 - 200 ft.	100 - 200 ft.	100 - 200 ft.	100 - 200 ft.	100 - 200 ft.
Major	50 - 400 ft.	200 - 400 ft.	200 - 400 ft.	200 - 400 ft.	200 - 400 ft.	200 - 400 ft.
Water Quality Transition Zone						
Minor	None	100 ft.	100 ft.	100 ft.	100 ft.	100 ft.
Intermediate	None	200 ft.	200 ft.	200 ft.	200 ft.	200 ft.
Major	None	300 ft.	300 ft.	300 ft.	300 ft.	300 ft.

- Correct WPD vs. PDRD references within Code (instead of WPDRD)
- Change Town Lake to Lady Bird Lake §25-8, §25-7
- Add definitions
  - Cluster Housing, Director, Erosion Hazard
     Zone, Multi-Use Trail, Open Space
- Correct watershed names and classifications §25-8-2
- Update Urban Watershed exceptions

 Clarify variance for Barton Springs Zone WQTZ (must meet conditions)

§25-8-41

 Administrative CWQZ variances for projects that protect environment, health & human safety

§25-8-42

Administrative cut/fill variance for drainage conveyance

§25-8-42

•	Environmental assessment clarifications	§25-8-121
•	Organize erosion & sedimentation requirements	§25-8-186
•	Add CEF buffer & void mitigation provision	<b>1S §25-8-281</b>
•	Clarify wetland protection area	§25-8-282
•	Clarify wastewater restrictions, modify per State requirements	§25-8-361
•	Add section for Urban Watersheds	§25-8, Article 8

- Rework the Transfer of Development Rights (TDR) process
  - Remove credit for wastewater irrig. areas,
     CEF buffers, golf courses

§25-8-393, 424, 454

- Allow transfers between two site plans
- Allow transfers between two subdivided tracts in same watershed class
- Clarification of cluster housing requirements for Water Supply Rural watersheds
- Align WQTZ requirements in Barton Springs
   Zone and Water Supply Rural
   §25-8-452, 482
- Update pollutant list in SOS Ordinance (bacteria)

§25-8-514

#### **Future Phases**

#### Phase 2 (Spring 2012)

Clarification of Landscaping Code requirements

§25-2-982

 Clarify that trails are allowed within compatibility setbacks

Clarify endangered species requirements

§25-8 Subch. E

Organize shoreline modification review requirements

#### Phase 3

- Consider new names for watershed classifications (e.g., "Suburban")
- Align stream crossing requirements with connectivity requirements proposed during Imagine Austin code revision

## **Impact Analysis**

- Council resolution: "...minimize the impact of any changes on individual and collective abilities to develop land."
- WPD conducting analysis of properties to evaluate effect of ordinance proposals on:
  - Creek buffer geometry
  - Developable area
  - Allowable impervious cover

## **Impact Analysis**

- Preliminary analysis for undeveloped properties in Suburban watersheds shows:
  - A slight gain in impervious cover for the undeveloped portion of the watersheds
  - Majority of properties are in the uplands and have a net site area equal to gross site area (thus are unaffected)
  - Majority of affected sites are within a range of +/-10 percent for impervious cover impact
- Welcome stakeholder input into final analysis; more stakeholder input to come

"Work in coordination with Travis County and neighboring communities to develop the above changes."









# **Adoption Schedule**

Council Resolution	January 2011	
Stakeholder Meetings	Sep. 2011 – April 2012	
Staff develops Draft Ordinance	April – November	
Informal Interdepartmental Review*	Nov. 2 – Nov. 30	
Brief the Environmental Board	December 5	
Stakeholder Feedback on Draft Ordinance*	Dec. 14 – March 2013	
Formal Interdepartmental Review*	March 2013	
Boards & Commissions	April – May 2013	
City Council	June 2013	
Travis County Commissioner's Court	Summer 2013	

<sup>\*</sup> City staff also happy to meet with interested groups upon request.

## **Contact/Additional Information**

Matt Hollon
Watershed Protection Department
City of Austin
(512) 974-2212

matt.hollon@austintexas.gov

<u>www.austintexas.gov/page/</u> <u>watershed-protection-ordinance-0</u>