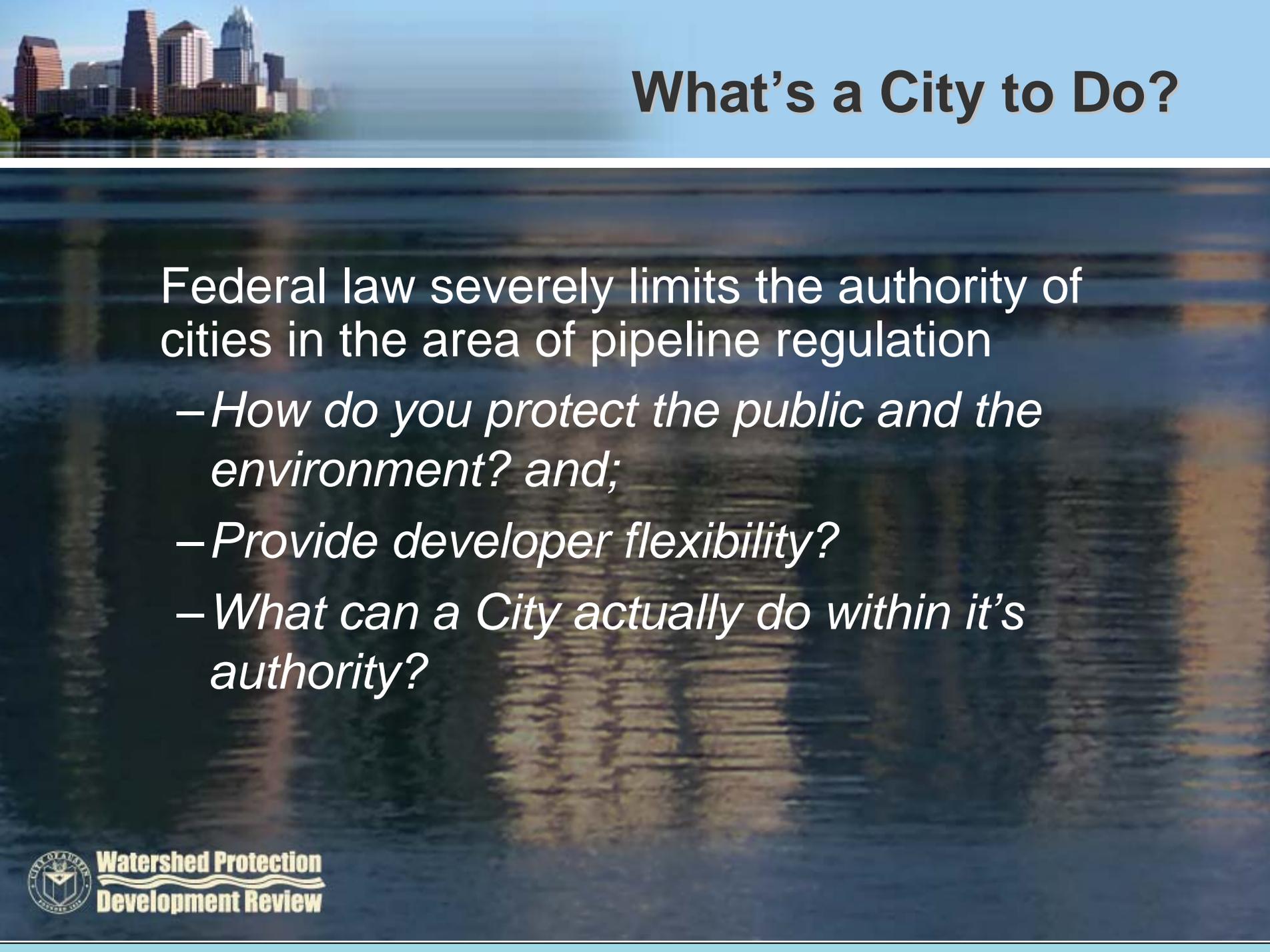


# Austin's Pipeline Ordinance

## A Risk Based Approach



**Watershed Protection**  
**Development Review**

A photograph of a city skyline with several skyscrapers, including a prominent one with a pointed top, reflected in a body of water. The sky is clear and blue.

# What's a City to Do?

Federal law severely limits the authority of cities in the area of pipeline regulation

- *How do you protect the public and the environment? and;*
- *Provide developer flexibility?*
- *What can a City actually do within it's authority?*



The top left corner of the slide features a photograph of the Austin skyline, showing several prominent skyscrapers under a clear blue sky. The rest of the slide background is a blurred image of water reflecting the sky and buildings.

# Austin, Texas

Pop 656,000, metro area pop. 14 million

Rapid growth thru '80's and '90's, much of it over former rural areas home to pipelines

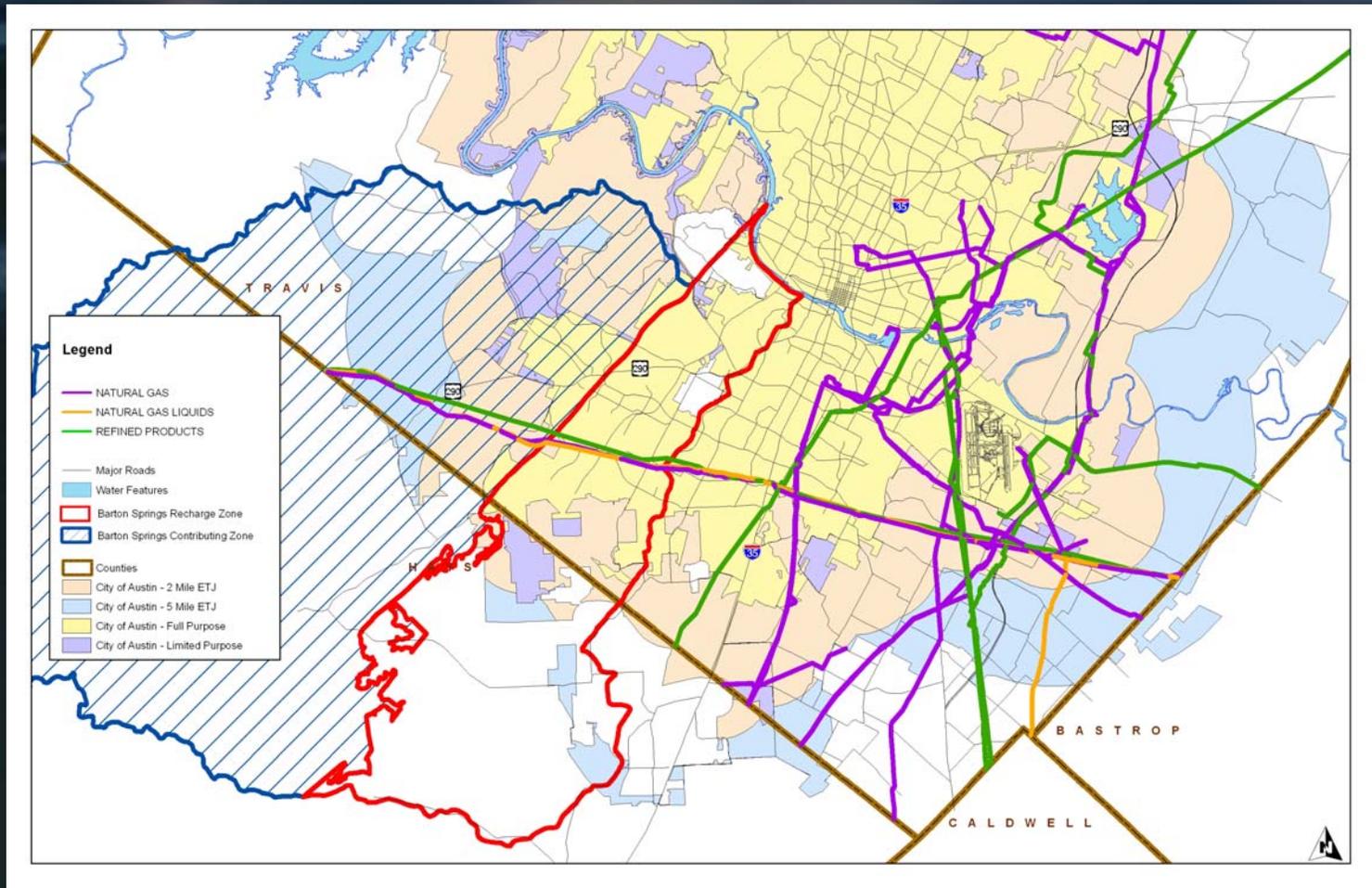
High level of citizen political involvement and environmental awareness

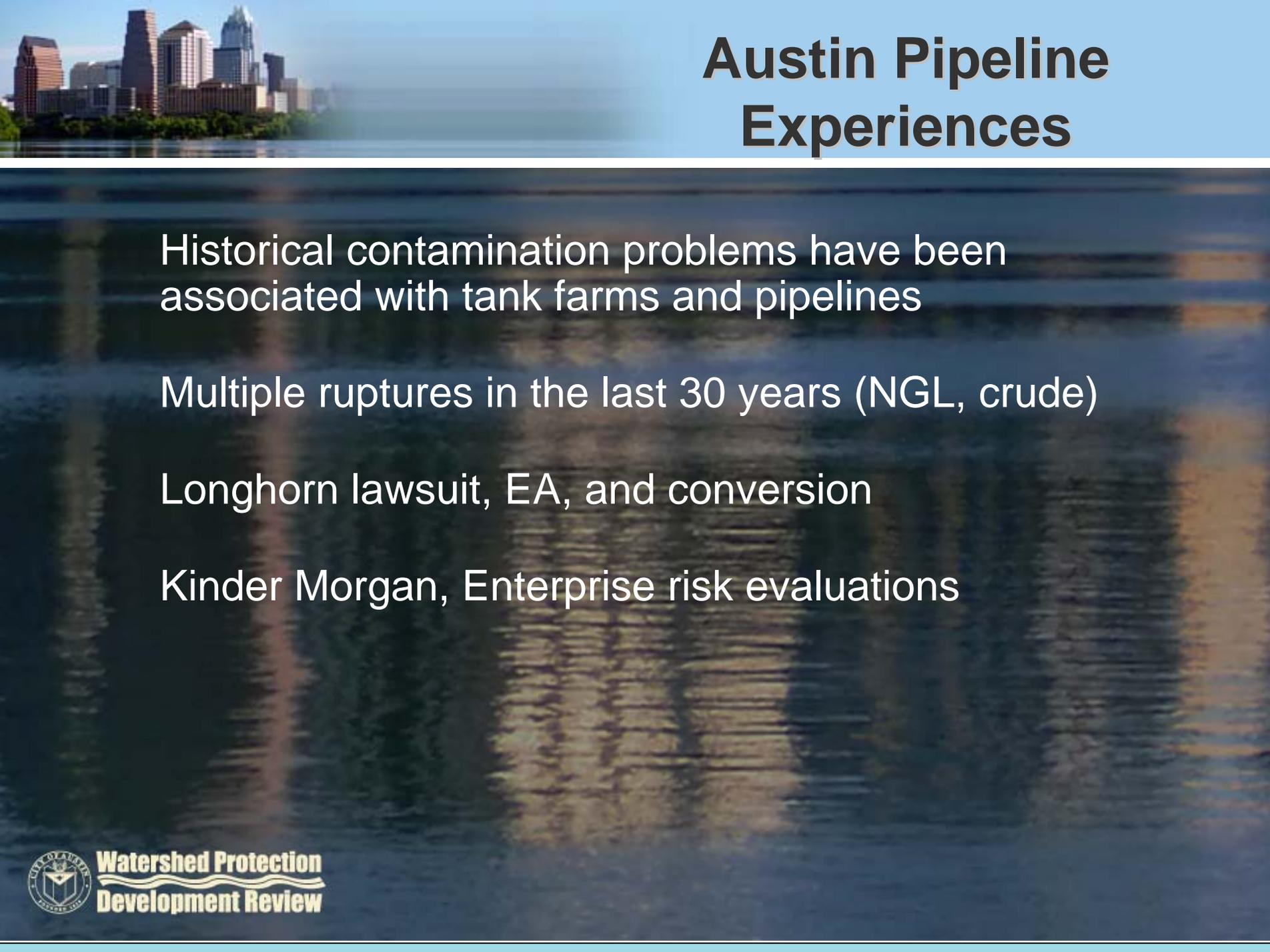
Numerous sensitive environmental features and issues (river, creeks, aquifer, endangered species)

**Over 400 miles of hazardous liquids and natural gas pipelines**



# Austin's Pipelines



The background of the slide features a photograph of the Austin skyline, including prominent buildings like the Frost Tower, reflected in the calm waters of a lake or river. The sky is clear and blue.

# Austin Pipeline Experiences

Historical contamination problems have been associated with tank farms and pipelines

Multiple ruptures in the last 30 years (NGL, crude)

Longhorn lawsuit, EA, and conversion

Kinder Morgan, Enterprise risk evaluations



# Longhorn Pipeline





# Longhorn Pipeline

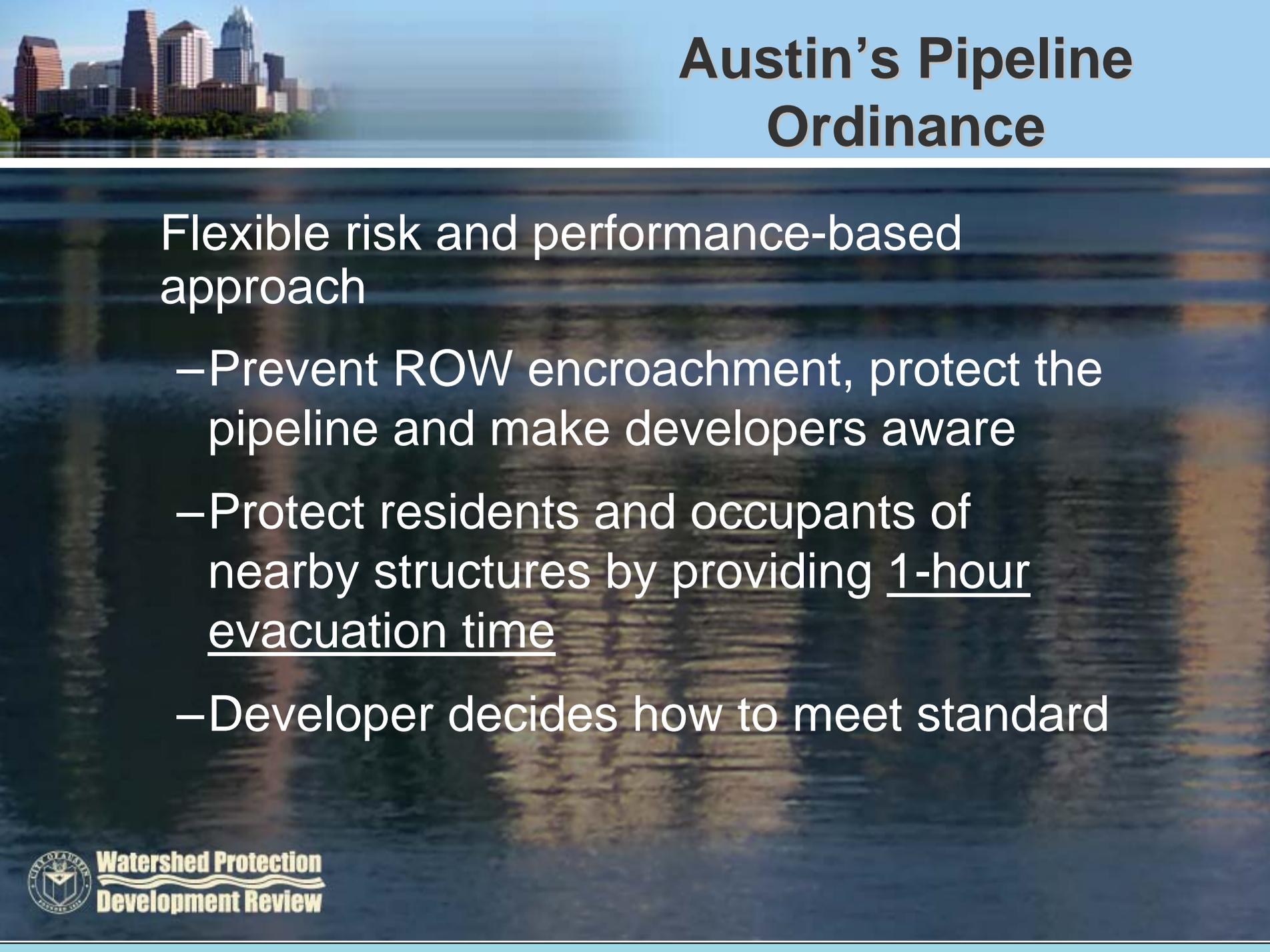


22. 4. 2002



# Longhorn Pipeline



The background of the slide features a scenic view of the Austin skyline, including several prominent skyscrapers, reflected in the calm waters of a lake or river. The sky is clear and blue.

# Austin's Pipeline Ordinance

Flexible risk and performance-based approach

- Prevent ROW encroachment, protect the pipeline and make developers aware
- Protect residents and occupants of nearby structures by providing 1-hour evacuation time
- Developer decides how to meet standard





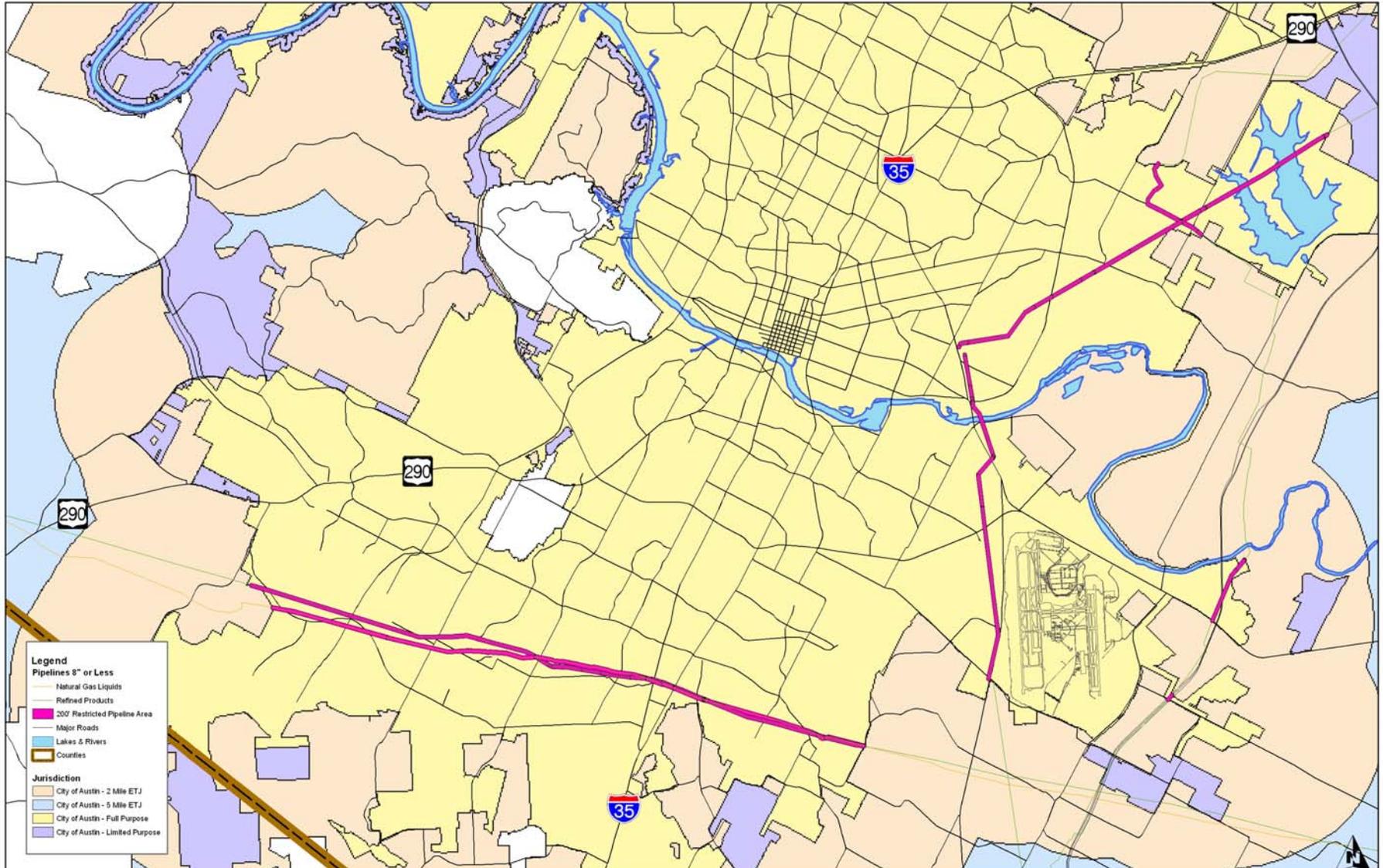
# Austin's Pipeline Ordinance

## Limitations

- Only applies to areas near hazardous liquids lines over 8" in diameter
- Doesn't include natural gas lines
- Doesn't address the issue of flowing product
  - *Studies indicate product can flow as much as 4 miles from a rupture in 1 hour*



# Austin's Pipeline Ordinance



The background of the slide features a scenic view of the Austin skyline, with several prominent skyscrapers and buildings reflected in the calm waters of a lake or river. The sky is a clear, light blue.

# Austin's Pipeline Ordinance

## ROW Encroachment/Developer Awareness

- No platted lots or structures within 25' of a pipeline or within a pipeline easement
- Subdivision plat must show pipeline easement or area within 25' of line
- Engineer certify that roads, parking lots, and utility lines are designed to protect pipeline



# Austin's Pipeline Ordinance

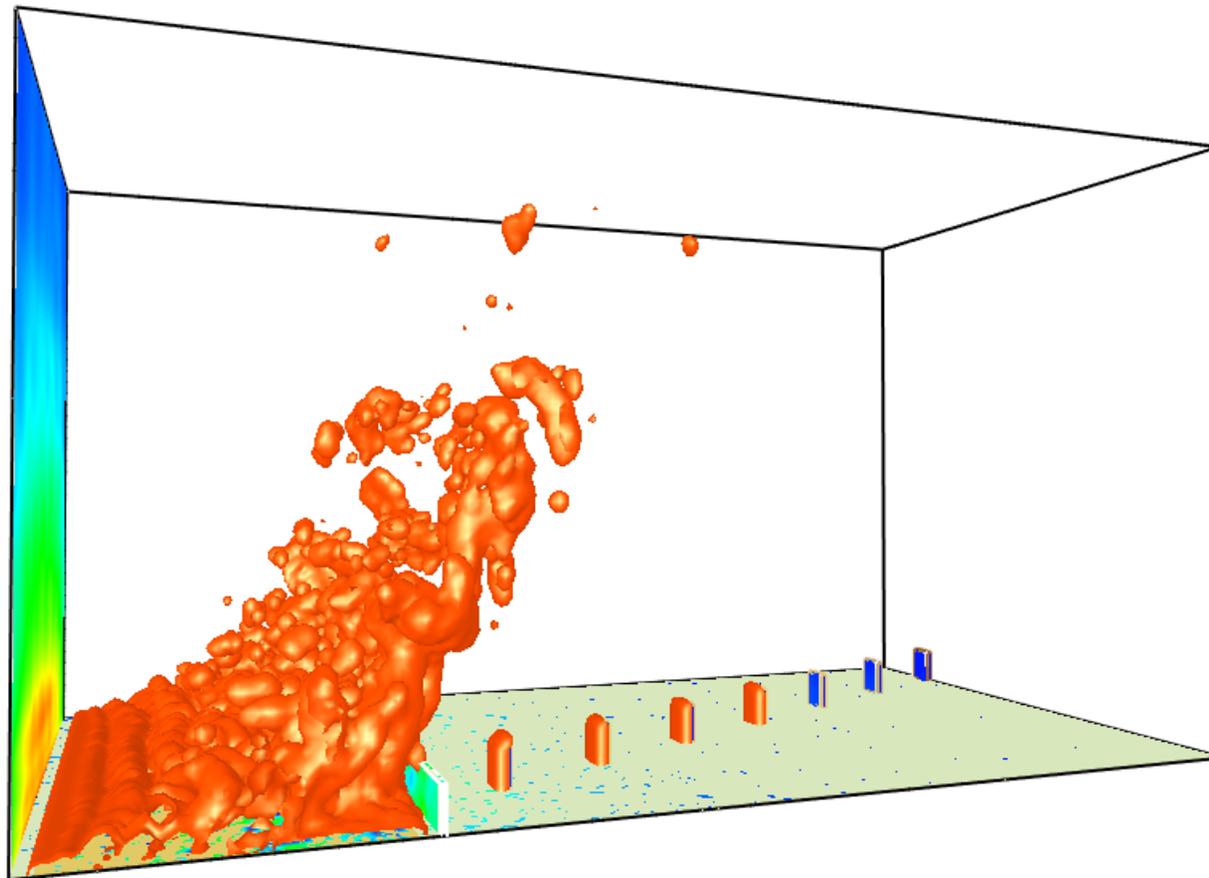
## Protect the Public

- Buildings with difficult to evacuate populations (hospitals, schools, daycare, etc) prohibited within 500' of pipeline ROW
- Residential lot < 1 acre = no ROW allowed in lot
- Buildings within 200' must:
  - Provide 1-hour evacuation time; and
  - Early leak detection system (if commercially available)



# Austin's Pipeline Ordinance

Smokeview 4.0.6 - Sep 15 2005



Endry  
heat  
kW/m<sup>2</sup>

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90.0  
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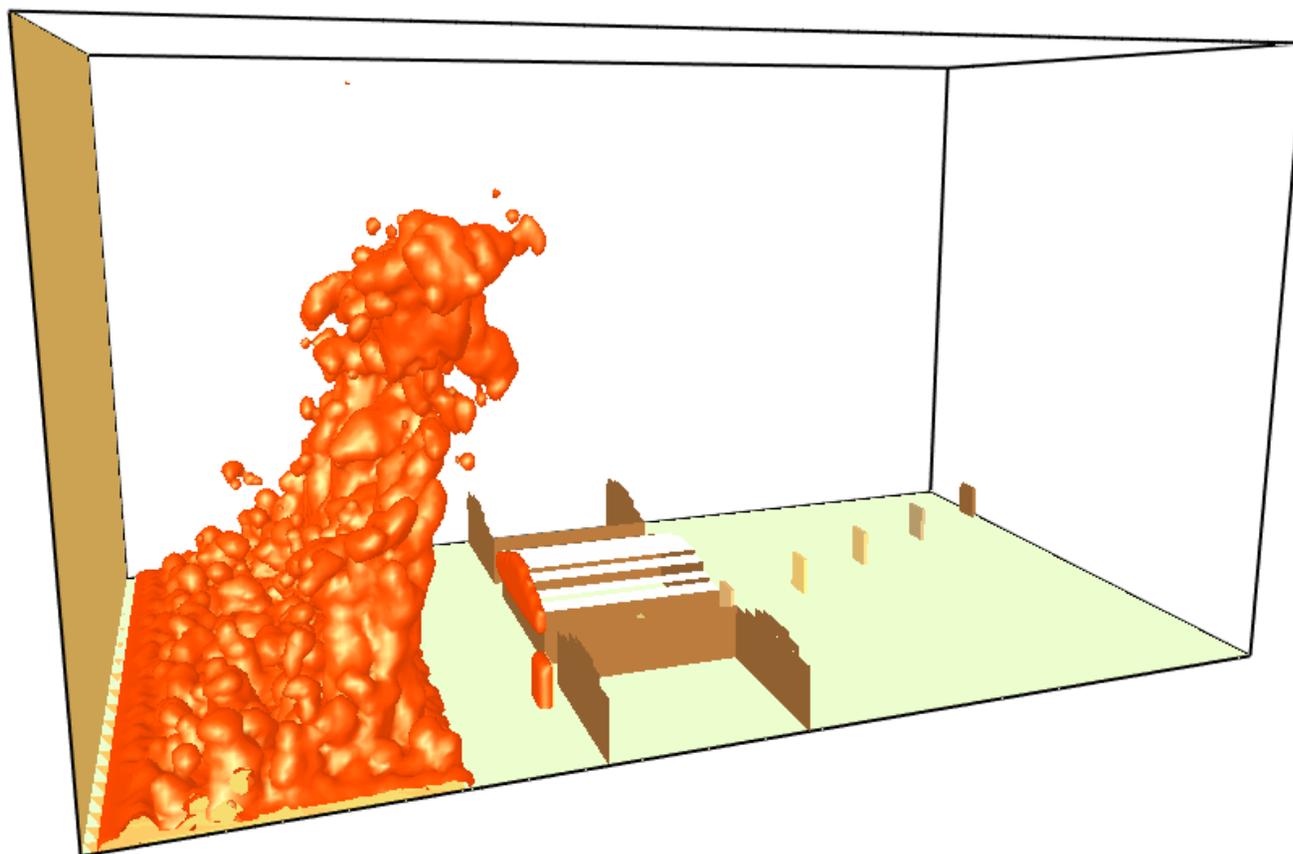


Frame: 466

Time: 140.4

# Austin's Pipeline Ordinance

Smokeyview 4.0.6 - Sep 15 2005

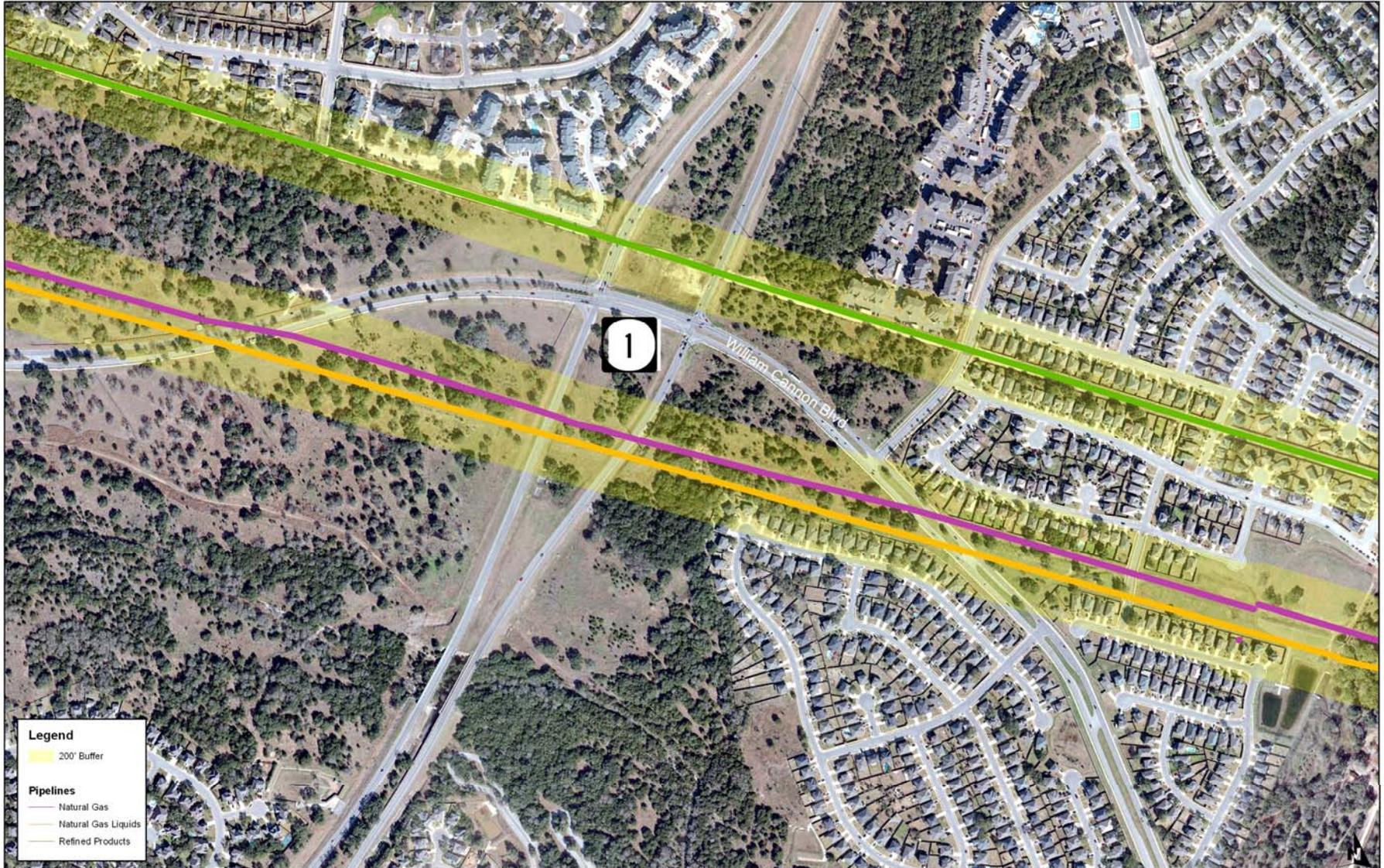


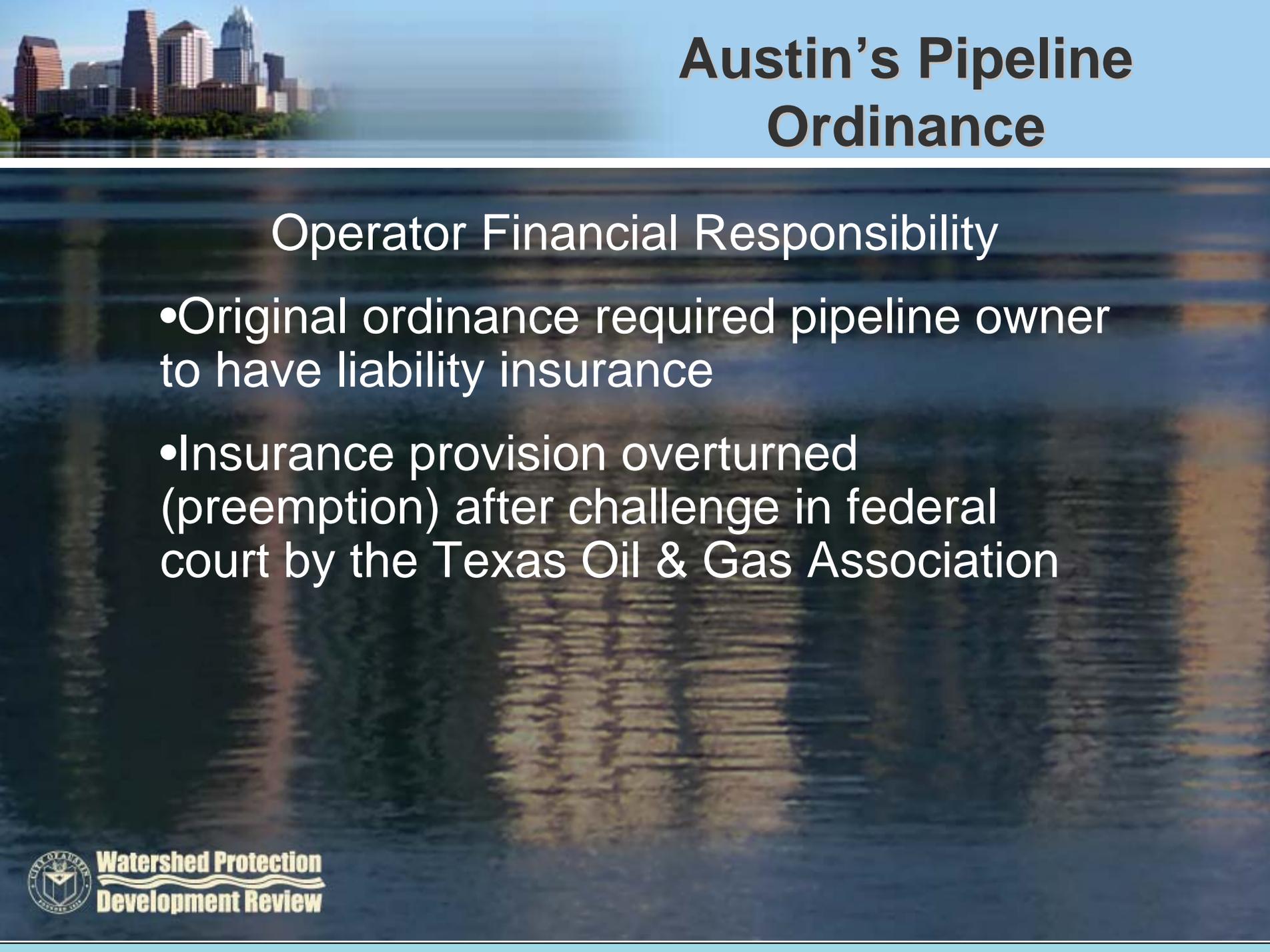
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# Austin's Pipeline Ordinance



The background of the slide features a scenic view of the Austin skyline, including several prominent skyscrapers, reflected in the calm waters of a lake or river. The sky is clear and blue.

# Austin's Pipeline Ordinance

## Operator Financial Responsibility

- Original ordinance required pipeline owner to have liability insurance
- Insurance provision overturned (preemption) after challenge in federal court by the Texas Oil & Gas Association



# Austin's Pipeline Ordinance

## Ordinance Development Challenges

Line location information often poor

- CoA team “GPS’d” every line

Developer and property owner buy-in

- Multiple public meetings and 1:1’s with developer groups

- Flexibility for builders to meet requirements

# Austin's Pipeline Ordinance

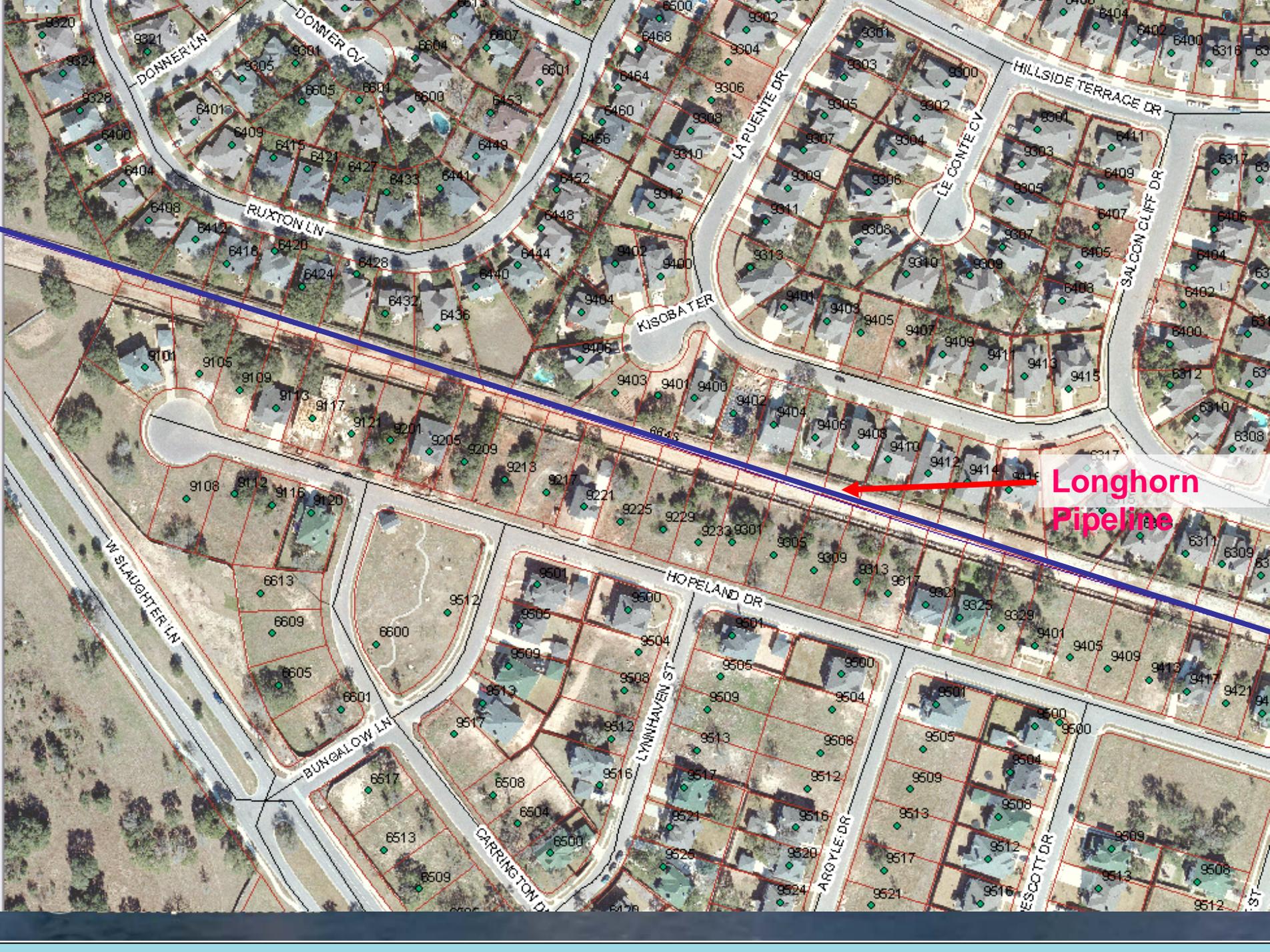
## Successes

- Minimal subdivision impact, pipeline areas already subdivided
- Flexible, performance based rules have allowed almost all projects near lines to be built with enhanced safety

## Problems

- Vast majority of projects easily comply
- Mobile home developments impacted
- Loss of insurance requirement





**Longhorn  
Pipeline**



Mobile Home Lots

A photograph of a city skyline, likely Atlanta, Georgia, with several prominent skyscrapers. The skyline is reflected in a body of water in the foreground. The sky is clear and blue.

# Next Steps?

- Add natural gas transmission lines?
- Add consultation requirement?
- Other?

