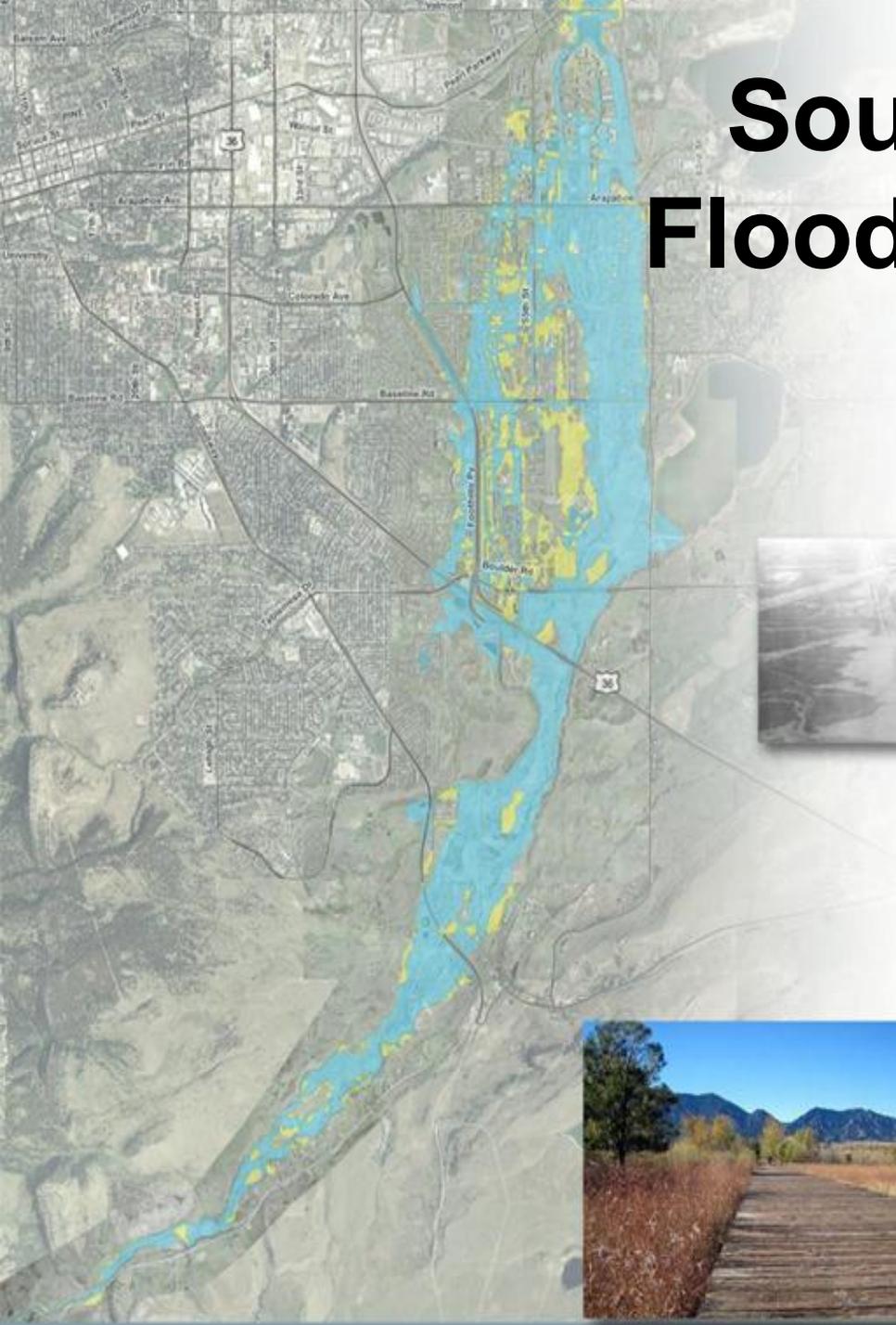


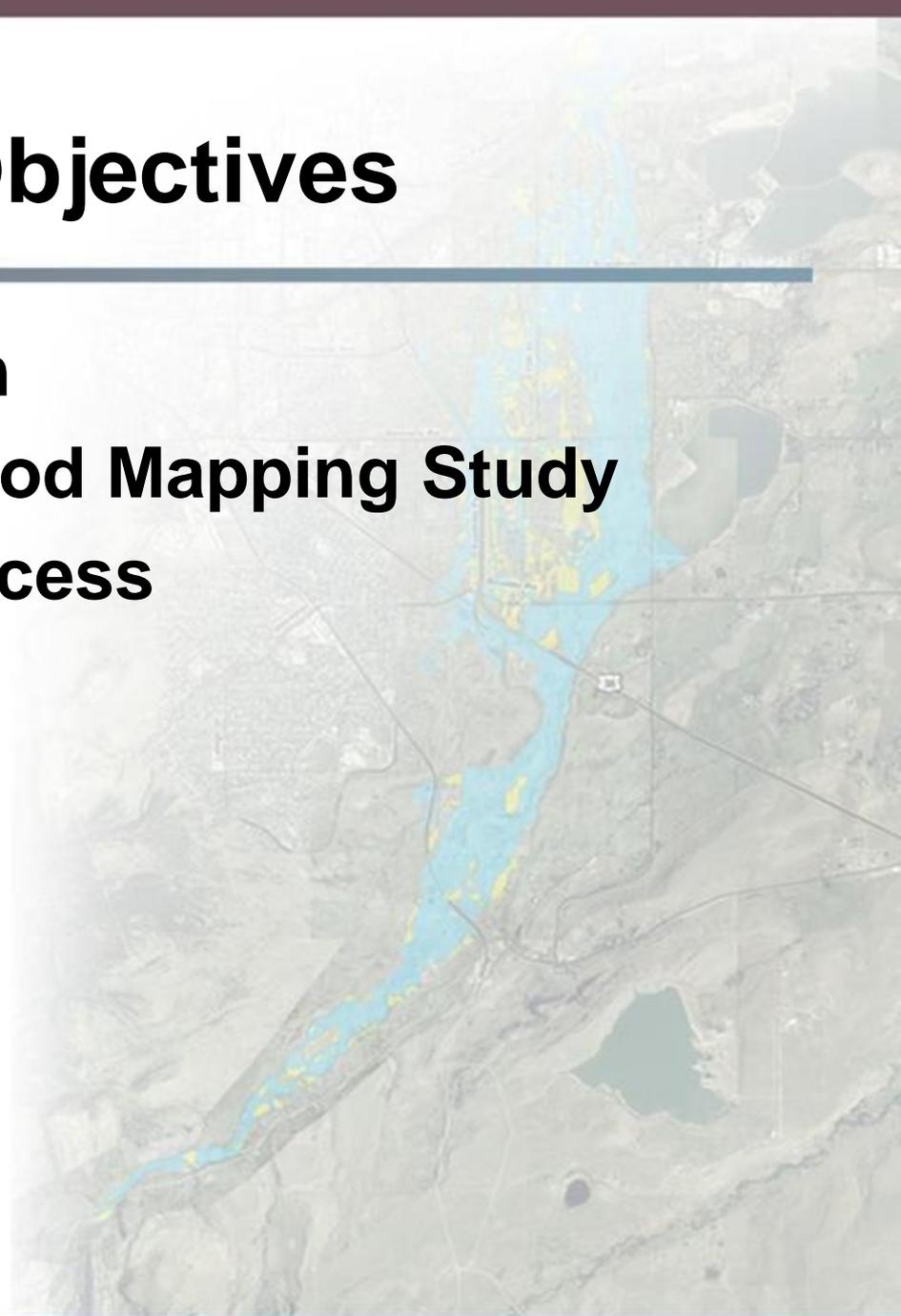
South Boulder Creek Flood Mitigation Study

March 3, 2010



Meeting Objectives

- **Introduce project team**
- **Review findings of Flood Mapping Study**
- **Describe planning process**
- **Solicit your input**
 - problem areas
 - potential solutions



Flood Mitigation Study Team

- **City of Boulder**

- Bob Harberg
- Kurt Bauer



- **Project Co-Sponsor**

- Urban Drainage and Flood Control District



- **Government Stakeholders**

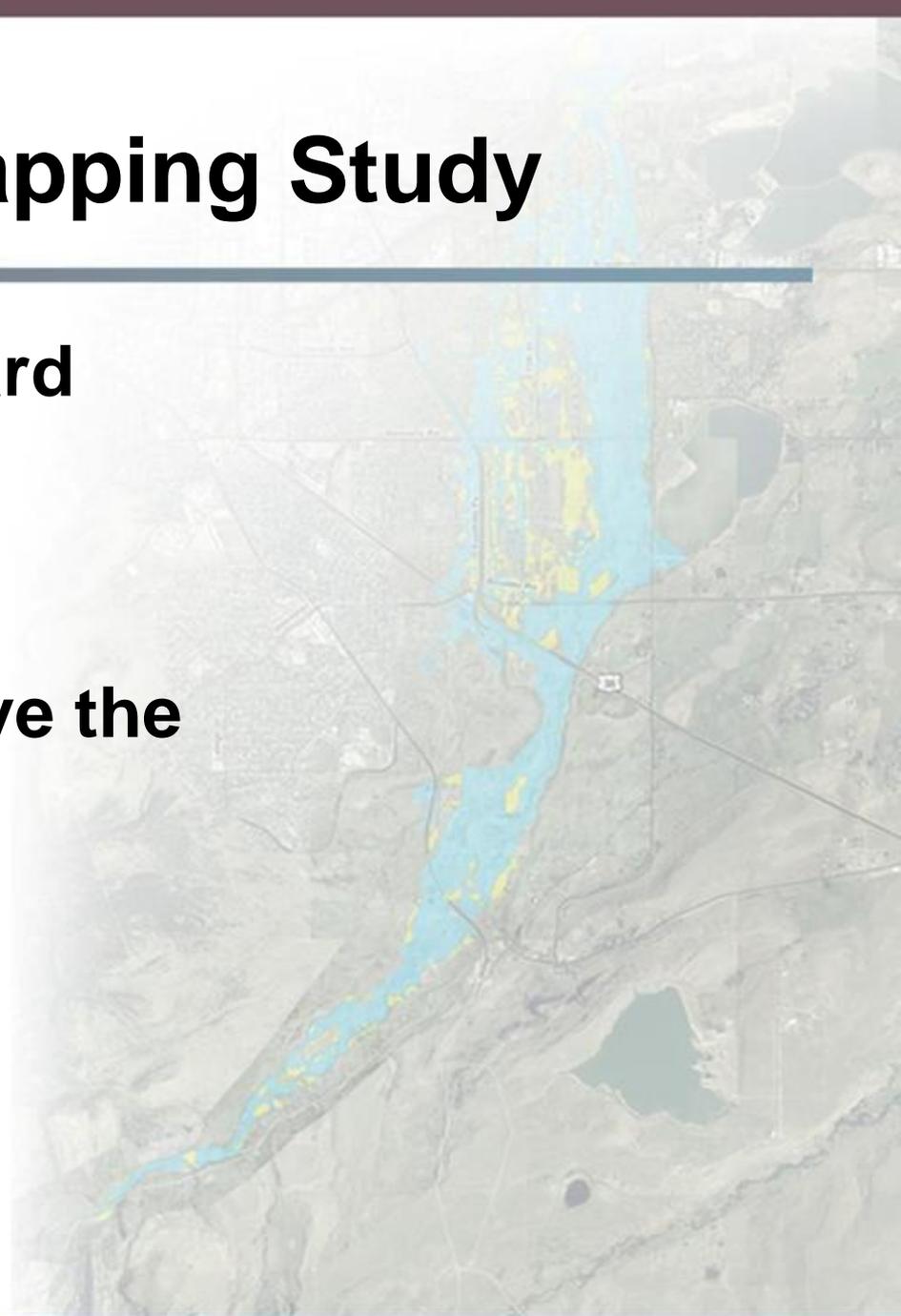
- Colorado Department of Transportation
- US Army Corps of Engineers
- University of Colorado
- Boulder County

- **Consultant Team**

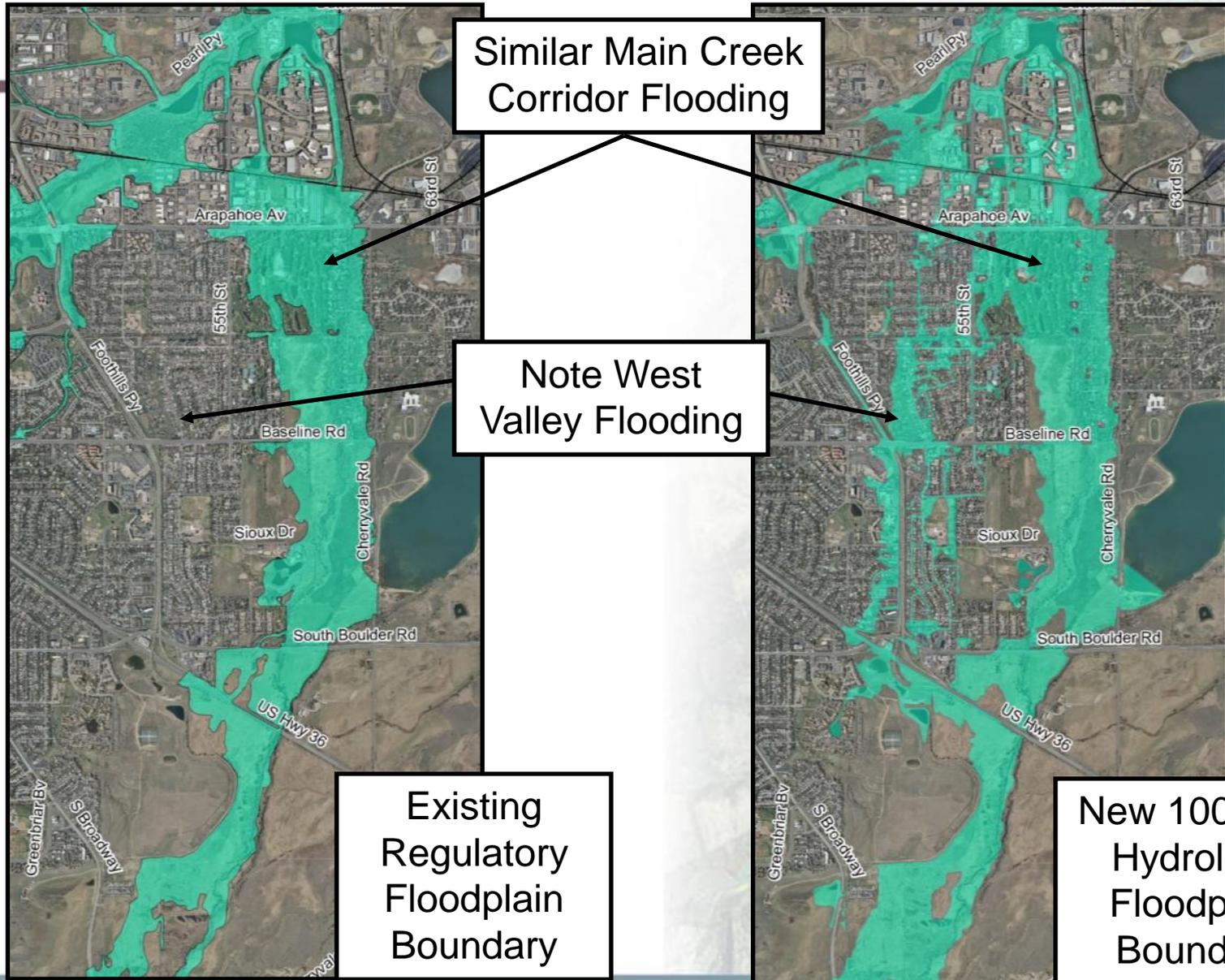
- CH2M HILL
 - DHI, Alan Taylor Consulting, Anderson and Company

The Flood Mapping Study

- **Defined the flood hazard**
 - Revised Hydrology
 - Revised Hydraulics
- **Did not attempt to solve the problem**



Floodplain Comparison



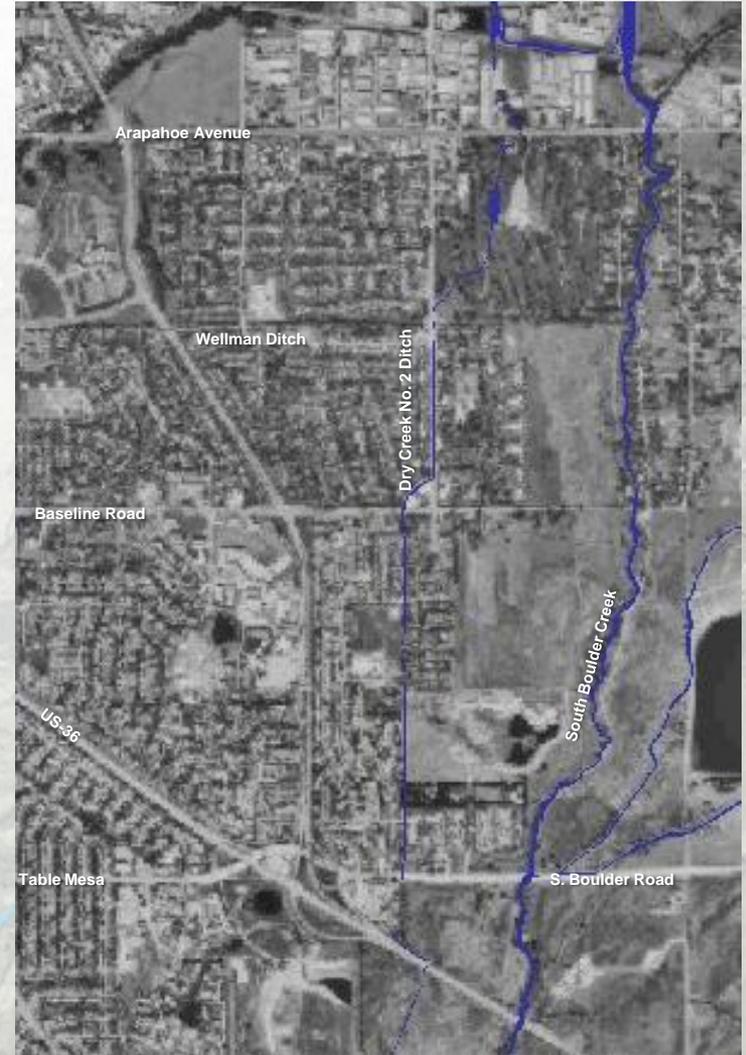
The Flood Mitigation Study

- Build on flood mapping study
- Define potential solutions
- Evaluate alternative plans
- Identify recommended plan



Summary of Flood Hazards

- Four major issues



Summary of Flood Hazards

- **Four major issues**
 - Flooding through the West Valley
 - local rainfall



Summary of Flood Hazards

- **Four major issues**
 - Flooding through the West Valley
 - local rainfall
 - Too much water for main channel to handle



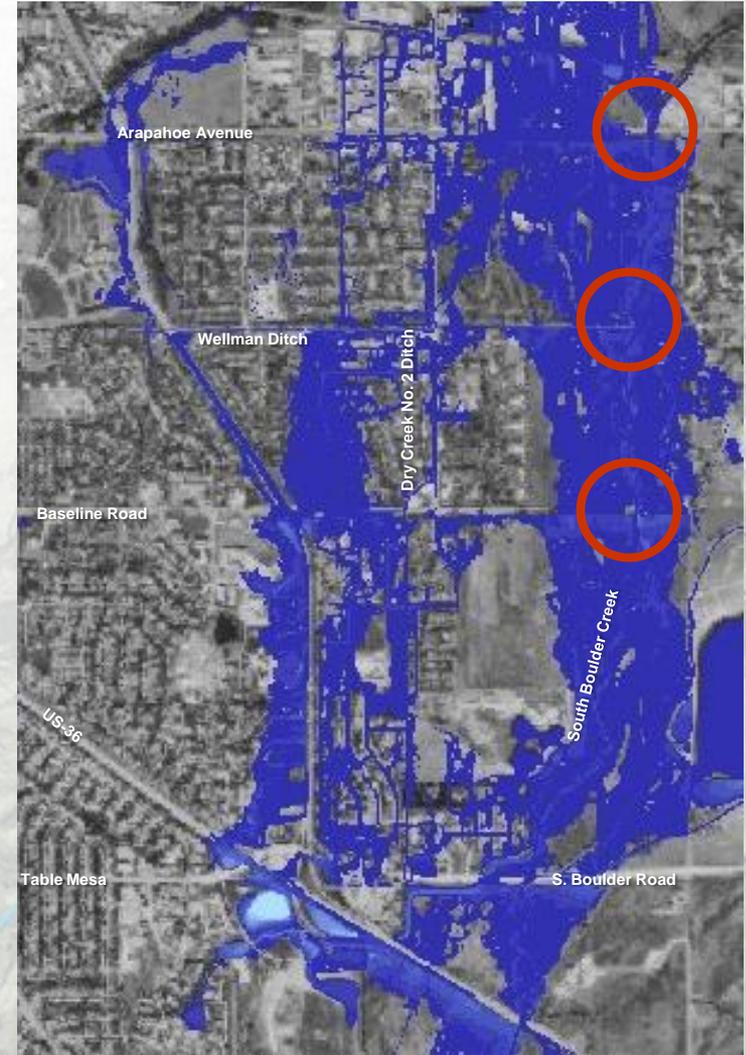
Summary of Flood Hazards

- **Four major issues**
 - Flooding through the West Valley
 - local rainfall
 - Too much water for main channel to handle
 - Overflows of US 36



Summary of Flood Hazards

- **Four major issues**
 - Flooding through the West Valley
 - local rainfall
 - Too much water for main channel to handle
 - Overflows of US 36
 - Undersized culverts



Identification of Potential Solutions

- **Focus on solutions to address known problems**
 - build on standard suite of options
 - storage, conveyance, non-structural elements
 - conceptual screening
 - eliminate infeasible options early
- **Elements common to any solution**
 - flood warning systems
 - continued floodplain management
 - maintenance and emergency repairs

The Screening Process

- **Use a matrix for screening**
- **Consider obvious constraints**
 - high quality wetland impacts
 - presence of threatened and endangered species
 - open space lands
 - right of way limitations
 - past public opposition
- **Eliminate infeasible options from further consideration**



An Example of the Screening Matrix

Conceptual Screening Matrix

		Potential Solutions		
		Storage	Conveyance	Non-Structural
Identified Problem Areas	Road Overtopping	●	●	X
	Structure Flooding	●	X	●
	Ditch/Channel Overflows	●	●	N/A

The Next Evaluation Steps

- **Define specifics of the options identified**
 - size, location, and type of improvements
- **Estimate cost and benefit**
 - conceptual level for comparison of options
- **Determine implementation implications**
 - environmental, public or policy
- **Combine into alternative plans for further evaluation**

Next Steps for The Project

- **Formulate Alternative Plans** (next step)
- **Evaluate Alternative Plans** (Spring 2010)
- **Next Public Meeting** (July 2010)
- **Recommendations to WRAB** (August 2010)
- **Final Plan Approval** (early 2011)

Ways to Give Us Your Input

- **Give comments at public meetings and hearings**
- **Post comments on the Web site**
www.southbouldercreek.com
- **Call the team**
 - Kurt Bauer, City of Boulder, 303.441.4232
 - Mark Glidden, CH2M HILL, 720.286.5135
- **Email the team**
 - Kurt Bauer, City of Boulder, BauerK@bouldercolorado.gov
 - Mark Glidden, CH2M HILL, mark.glidden@ch2m.com

Questions

