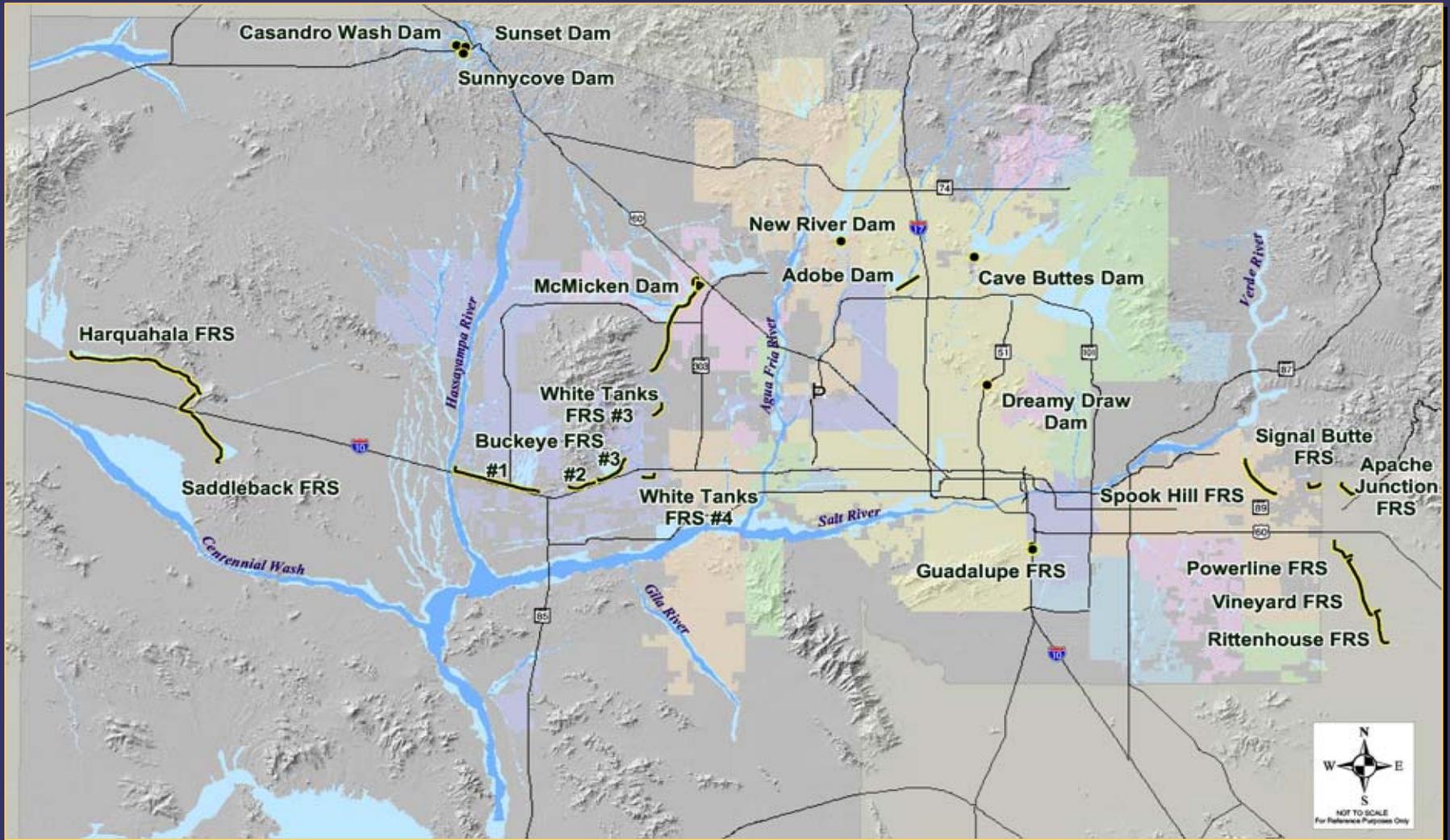


Flood Control Dams



Dam Safety Program

- Recurrent Dam Safety
- Structures Assessment and Repairs
- Dam Rehabilitation



Buckeye FRS No. 1 looking west



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Buckeye FRS No.1 Rehabilitation Project

Background

- Earthfill Flood Retarding Structure (FRS)
- Constructed by SCS (NRCS) 1974 and Modified in 1980
- Operated & Maintained by FCDMC
- ADWR is Regulatory Agency
- Crest Length is 7.1 miles
- Height is 26 ft.

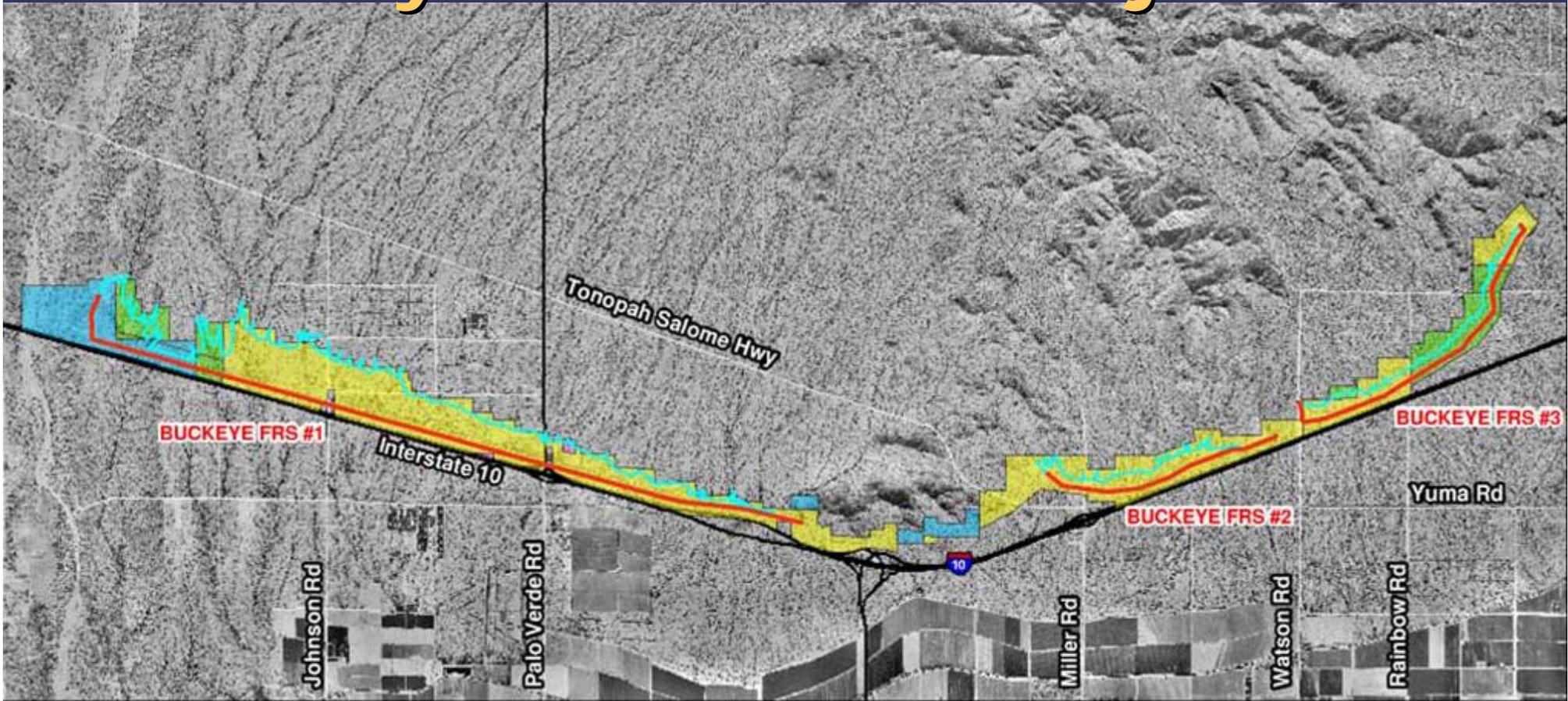


Buckeye FRS No. 1



Buckeye FRS No.1 Rehabilitation Project

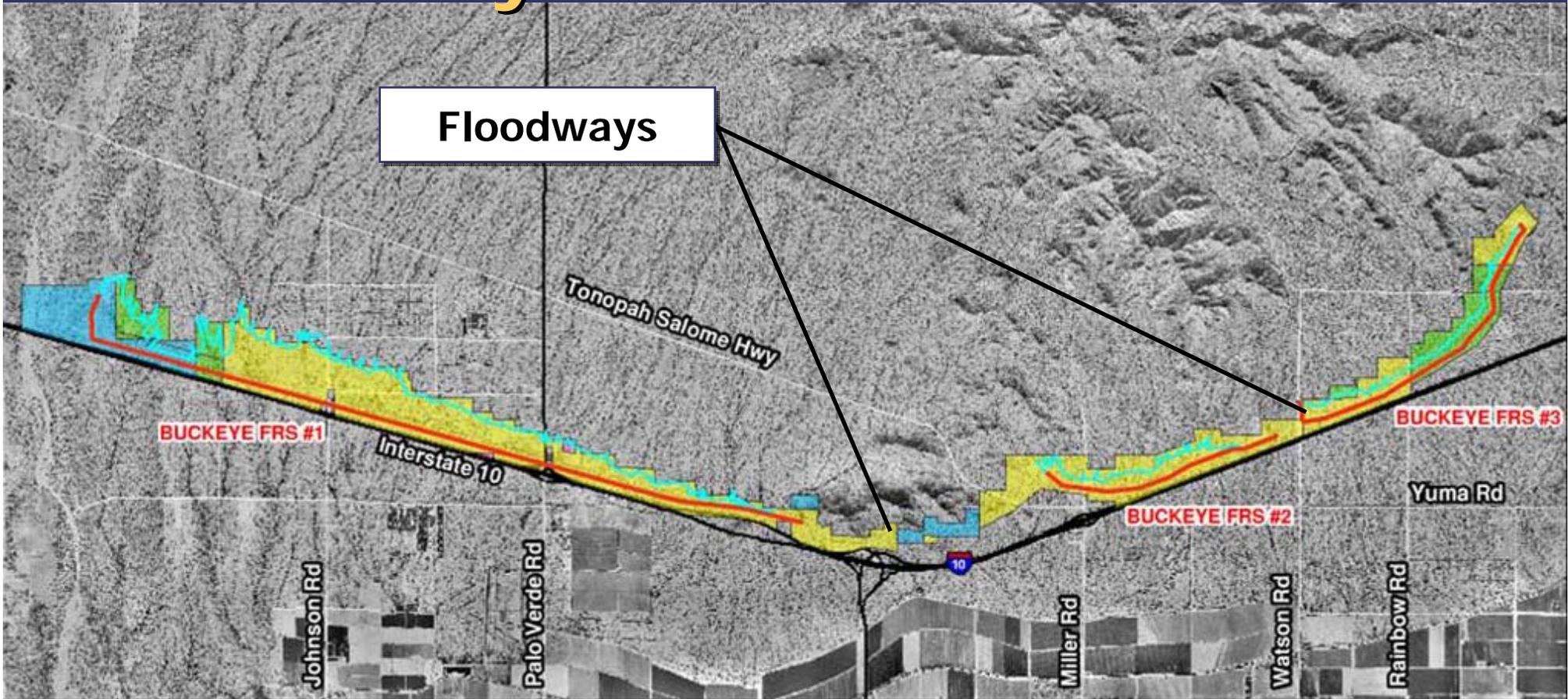
Buckeye Watershed Project



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Buckeye FRS No.1 Rehabilitation Project

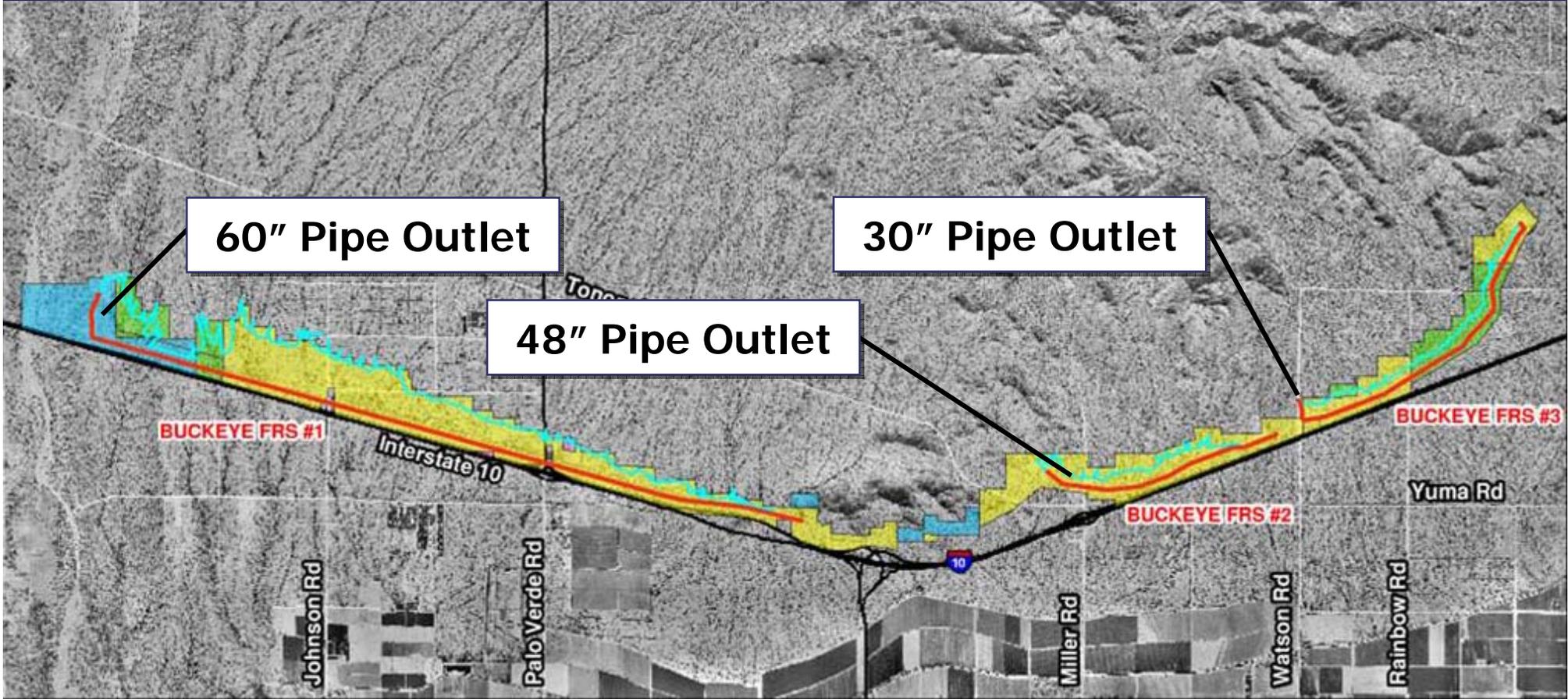
Floodways



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Buckeye FRS No.1 Rehabilitation Project

Outlets for Dams



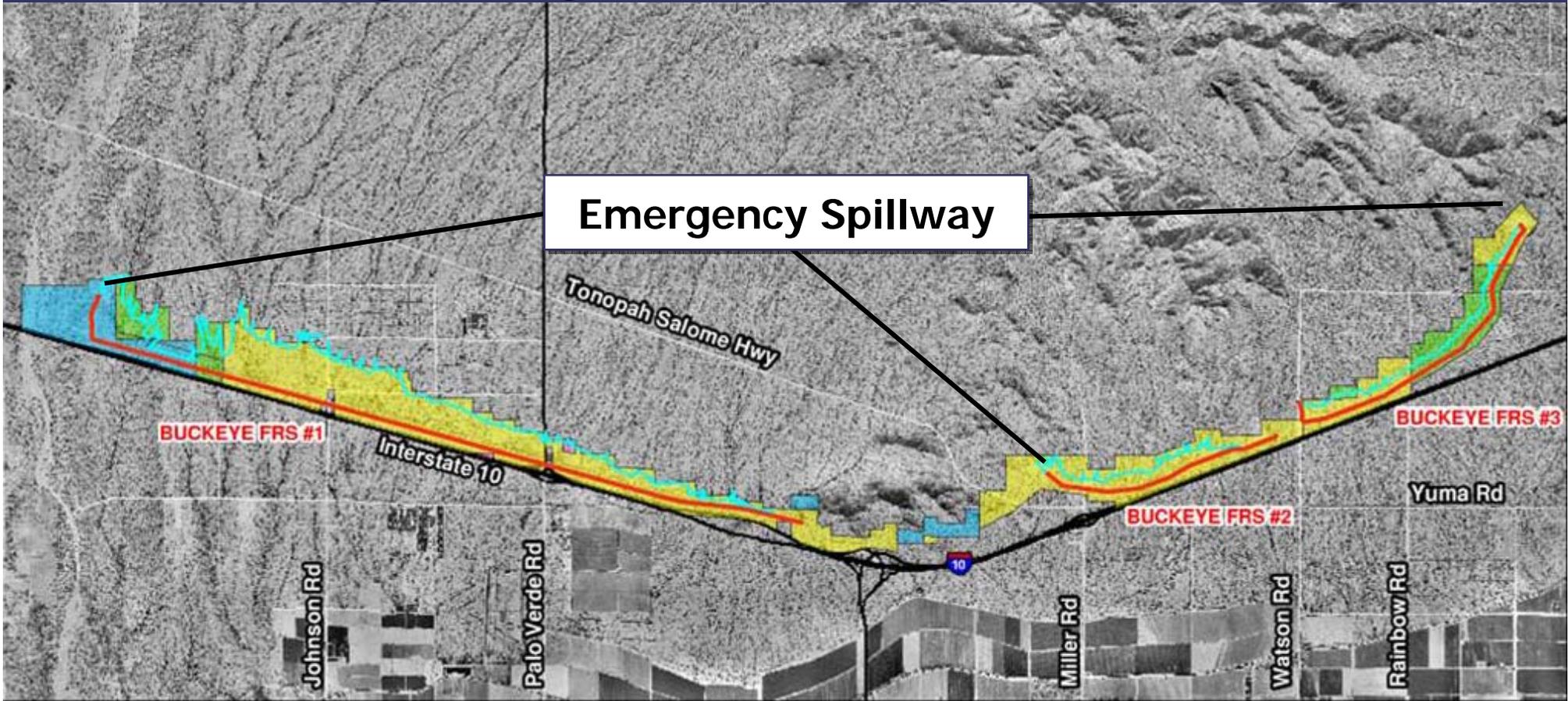
Buckeye FRS No.1 Rehabilitation Project

Buckeye FRS No.1 Outlet



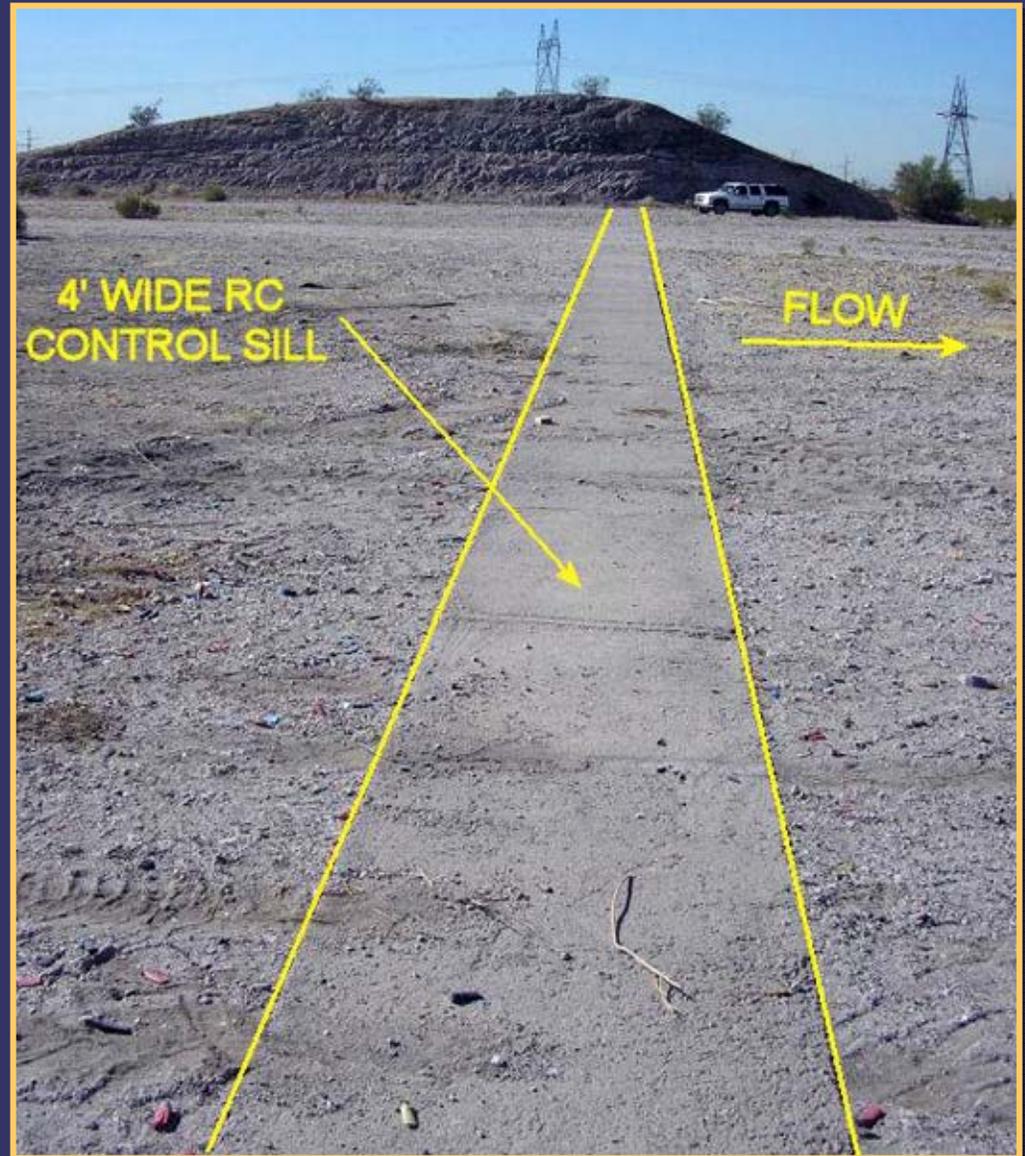
Buckeye FRS No.1 Rehabilitation Project

Emergency Spillways



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Buckeye FRS No.2 Emergency Spillway



Buckeye FRS No.1 Rehabilitation Project

Transverse Cracks

Investigation and Repair



Buckeye FRS No.1 Rehabilitation Project

Flood Protection

- Design Flood Event
- Study Flood Events: 100-year, 200-year, 500-year
- Incidental Flood Protection
- Probable Maximum Flood (PMF)



Buckeye FRS No.1 Rehabilitation Project

Flood Protection

Flood Event	Rainfall Amount (inches)	Rainfall Duration (hours)	Probability of flood event occurring during a 100-year period of time
100-year	3.6	24	64%
200-year	4.1	24	39%
500-year	4.7	24	18%
PMF (PMP)	9.8	6	< 1%



Buckeye FRS No.1 Rehabilitation Project

Alternatives Analysis Study

- Correct Dam Safety Deficiencies
- Identify Opportunities for:
 - Incorporate Multi-use for the Community
 - Improved Landscaping and Aesthetics
 - Enhance Environment
 - Public and Stakeholder Involvement



Buckeye FRS No.1 Rehabilitation Project

Alternatives Analysis Study

(continued)

- Possible Alternatives
 - Floodway and Levee
 - Flood Control Basins
 - Rehabilitate Dam
 - Combination



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Buckeye FRS No.1 Rehabilitation Project

Planning Status: Four Alternatives

Next Step: Refinement of Alternatives and
Selection of A Recommended Alternative

Next Public Meeting: February 2008
Present Recommended Alternative

Final Design: 2009

Phased Construction: 2010 - 2012



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