



Supervisor Max Wilson, District 4
Supervisor Mary Rose Wilcox, District 5

Buckeye Area Projects

Public Meeting

April 19, 2007

Buckeye Area Projects

AGENDA

- Meeting Purpose
- Buckeye ADMP
- Buckeye FRS No.1 Rehabilitation Project
- Landscape Aesthetics and Multi-Uses
- Team Introductions
- General Questions & Comments
- Adjourn to Open House





Supervisor Max Wilson, District 4
Supervisor Mary Rose Wilcox, District 5

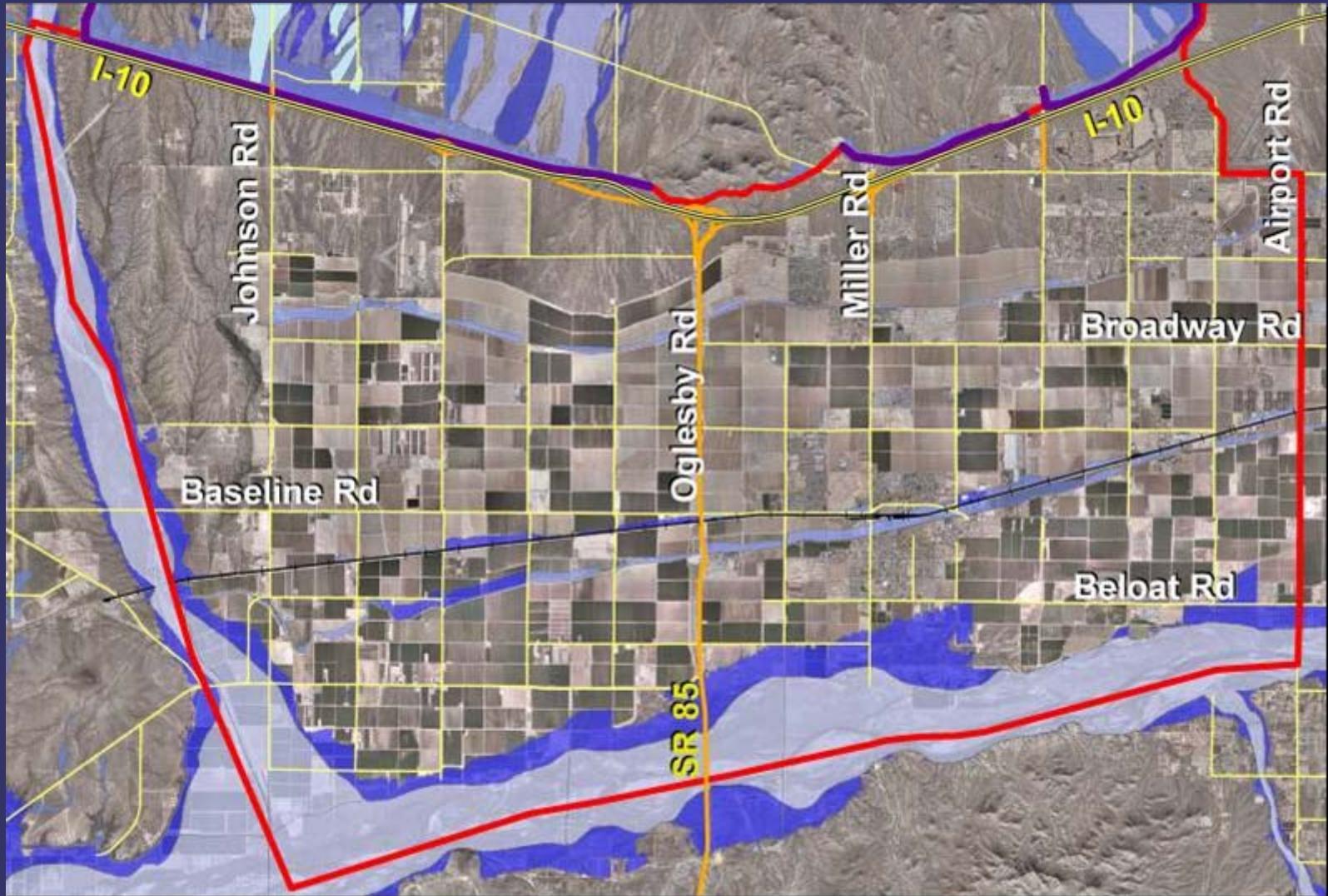
Buckeye Area Drainage Master Plan

Valerie Swick, EIT, PH, CFM

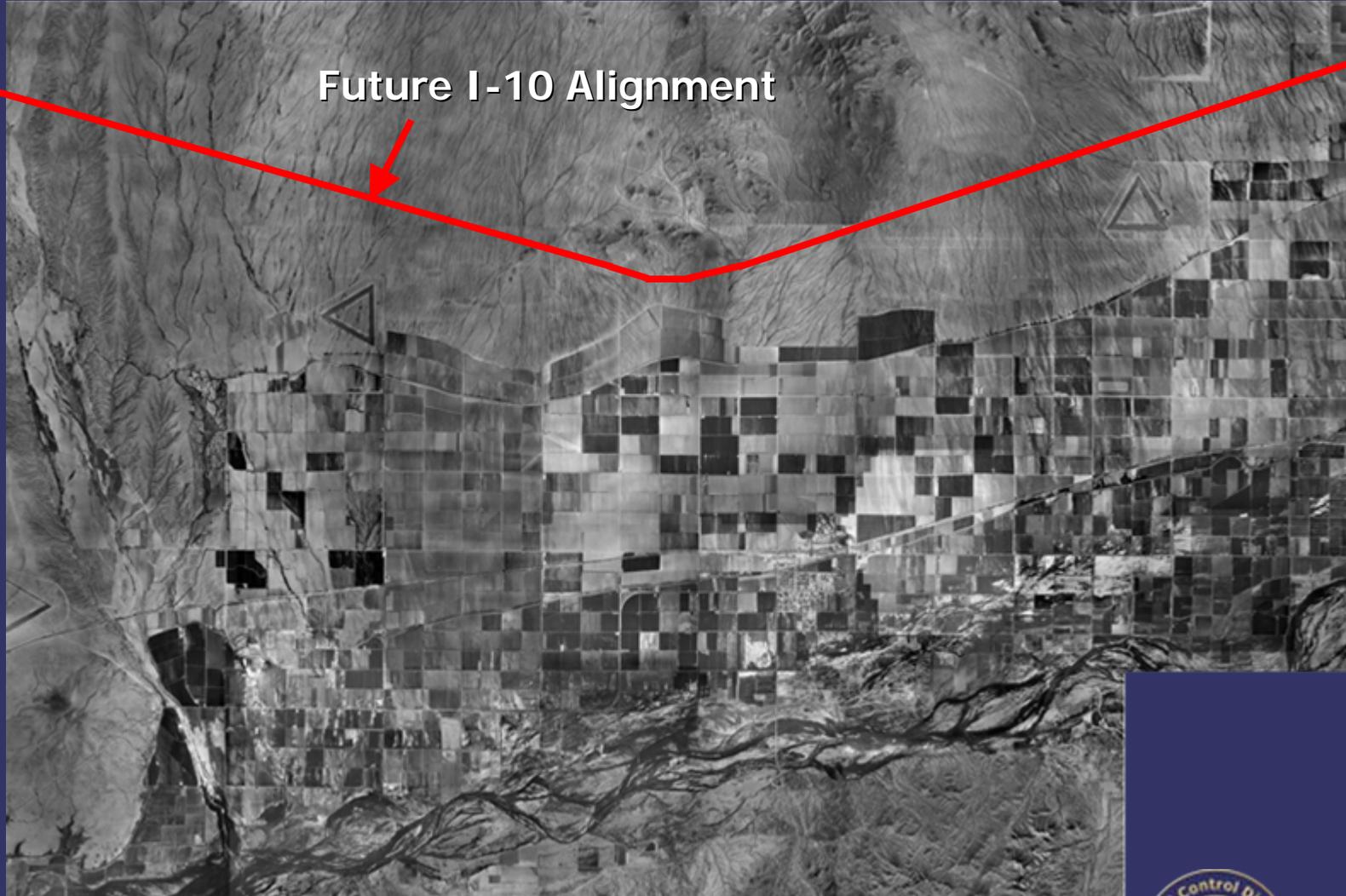
Project Manager

Planning Branch

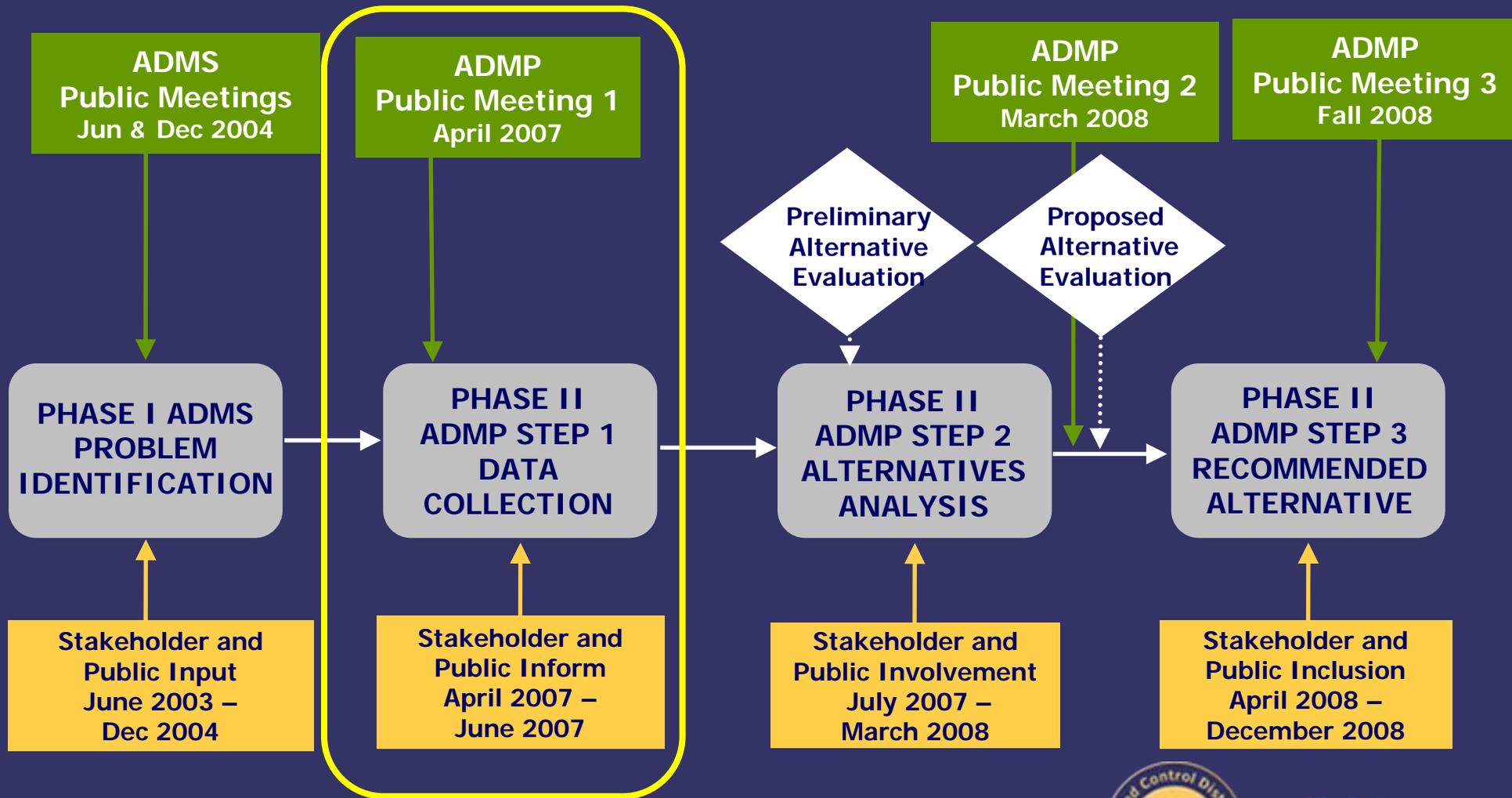
Buckeye ADMP Area



Buckeye Area in 1949



Buckeye Flood Study History



ADMS Overview

- Provide residents and stakeholders with a comprehensive assessment of flood and erosion hazards in the project area and develop tools to manage these hazards.
- Study began Summer of 2003 and ended Summer 2005.



Watershed Characteristics

- Predominantly Agricultural Land
- No Natural Drainage Features
- Shallow Sheet Flooding
- Ponding at Irrigation Canals, and Railroads
- Large Scale Developments and 1-acre Lots



Buckeye Area Drainage Master Plan Overview

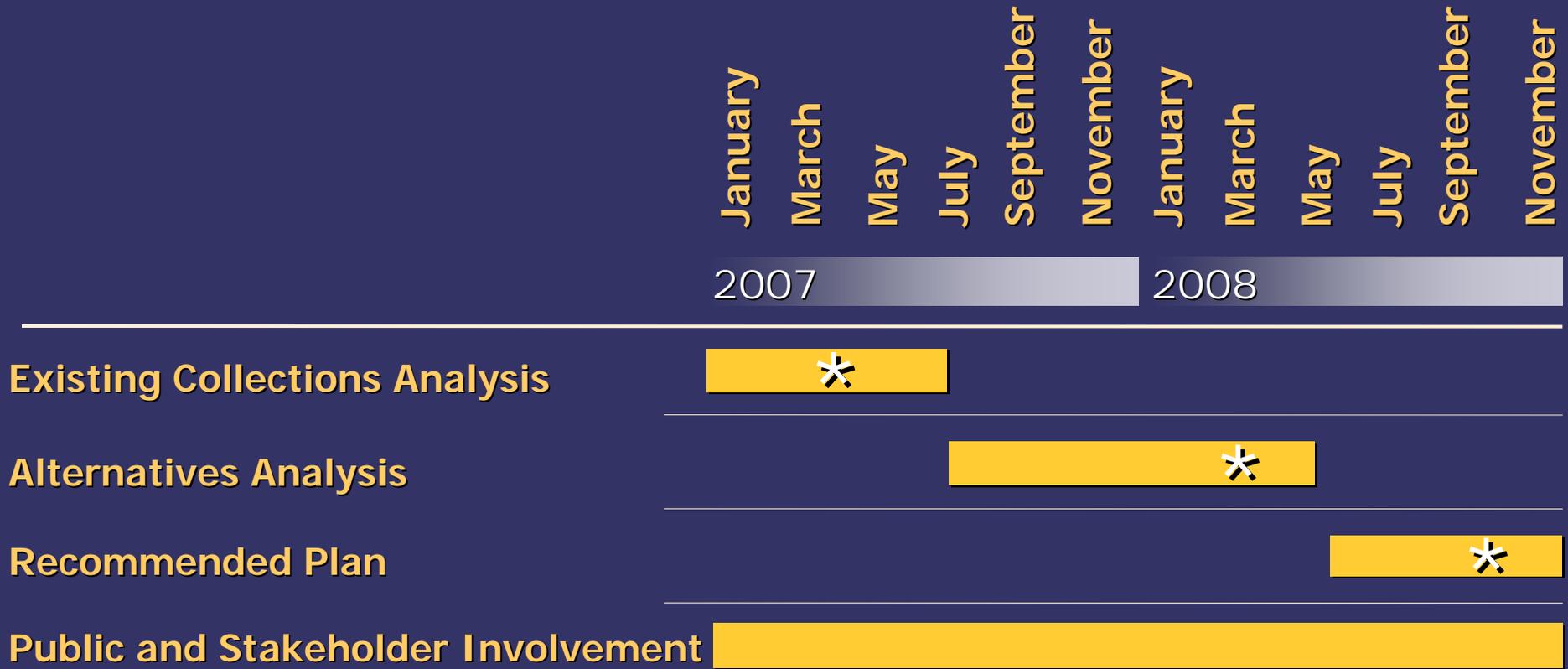
Develop Flooding Solutions using Multi-Disciplinary Team

- Collect and evaluate any new data since the Area Drainage Master Study
- Identify recent flooding and drainage issues
- Develop and evaluate flood control alternatives (structural and non-structural)
- Collect and incorporate input from general public and agencies
- Select Recommended Alternative



Buckeye Area Drainage Master Plan

Schedule



* Public Meeting





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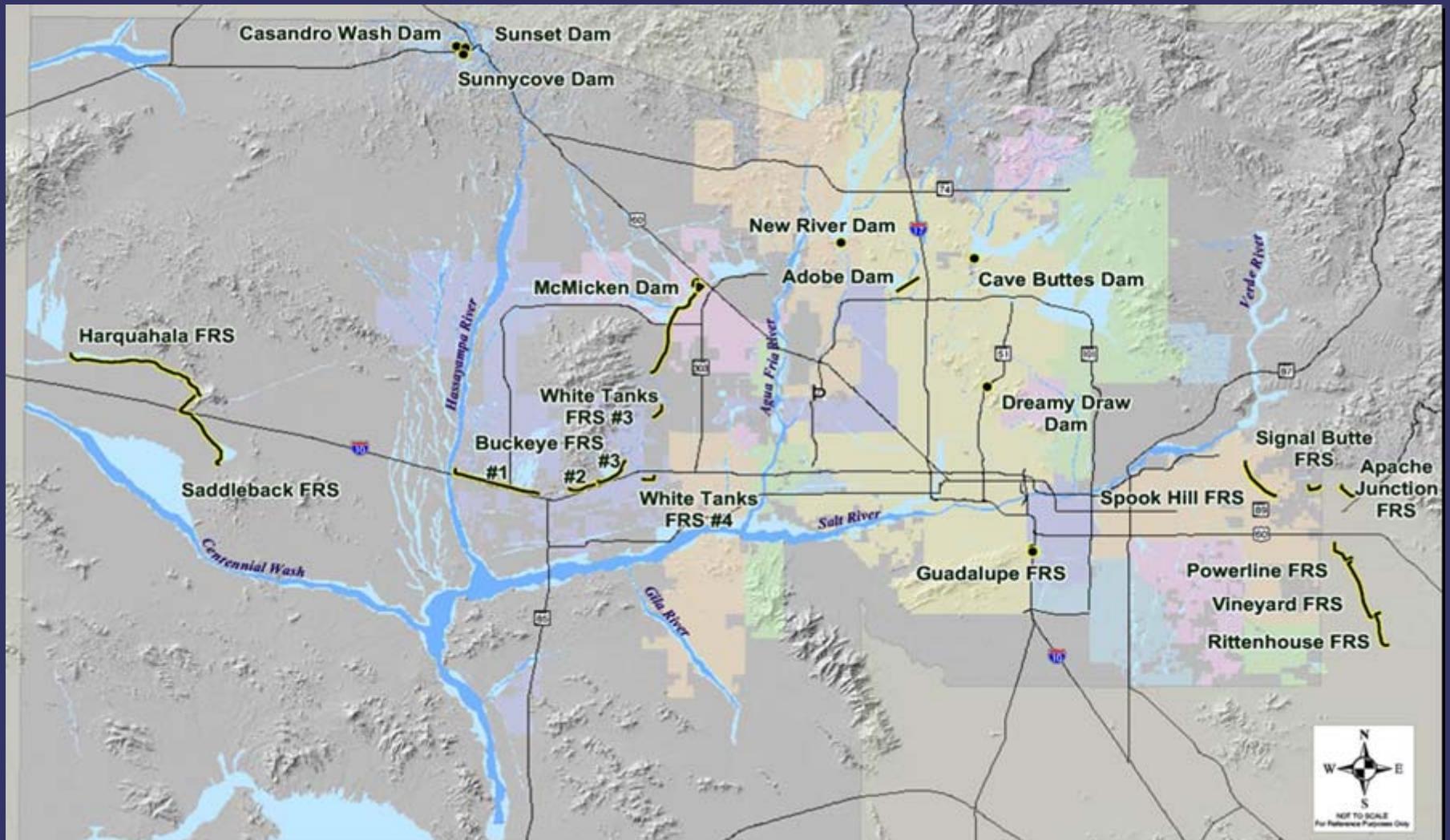
Buckeye FRS No.1 Rehabilitation Project

Tom Renckly, P.E.

Branch Manager

Structures Management Branch

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.

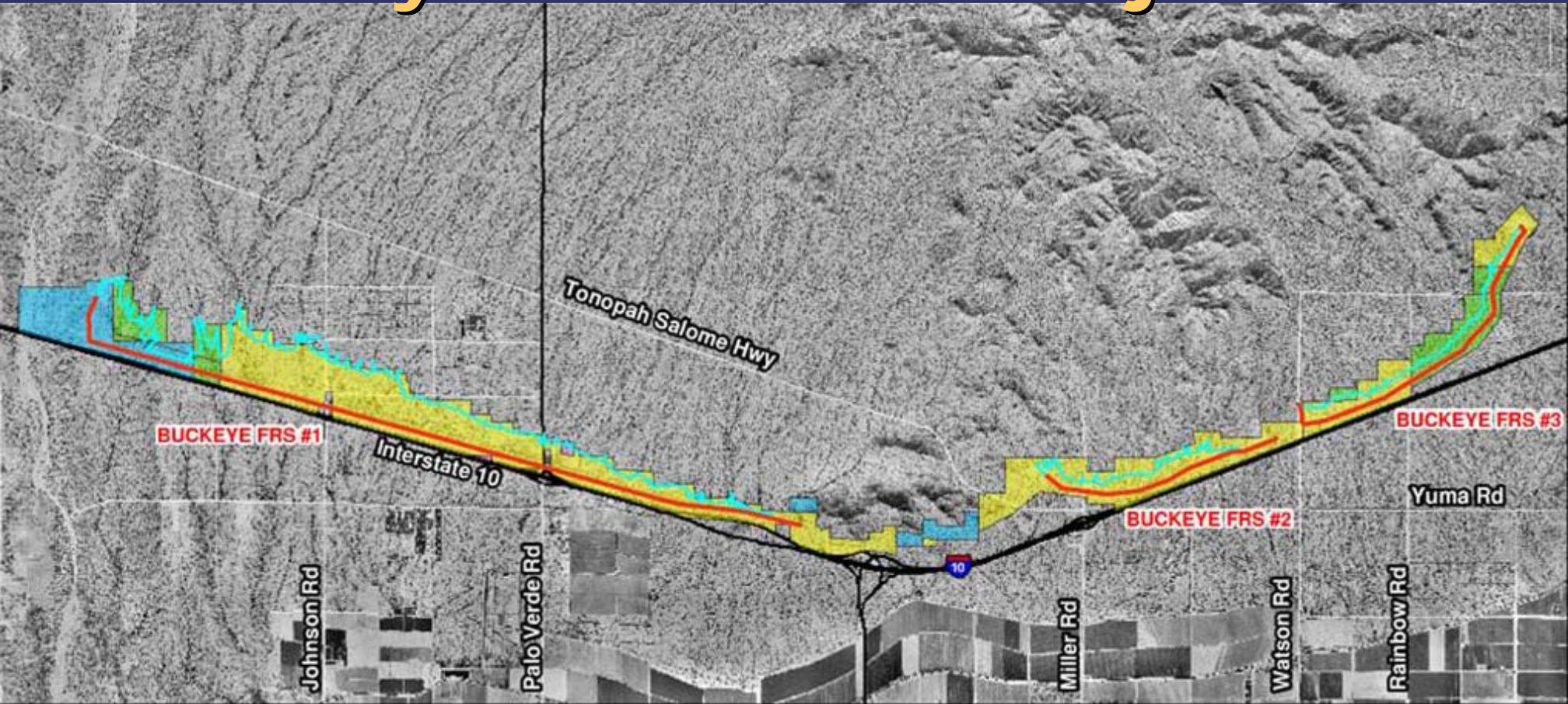


Buckeye FRS No. 1



Buckeye FRS No.1 Rehabilitation Project

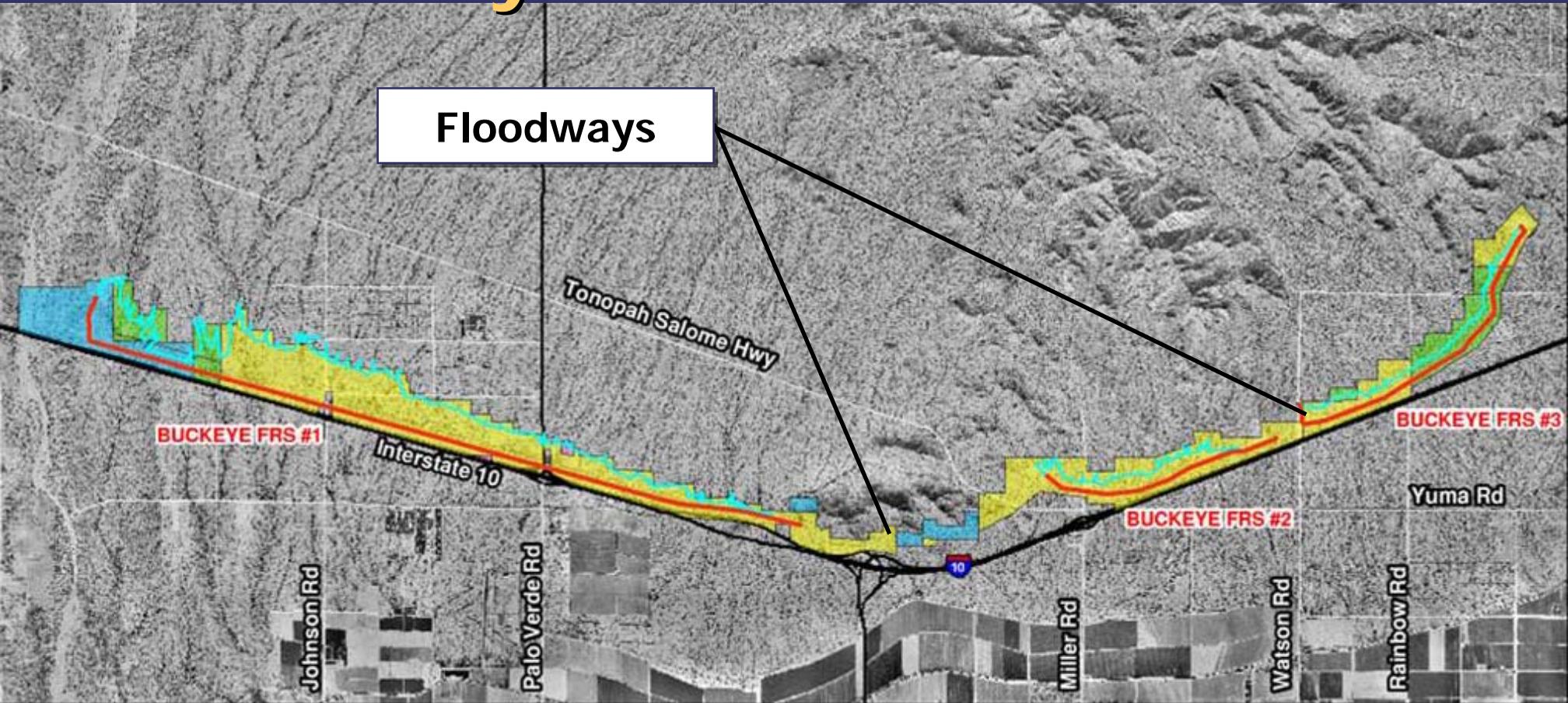
Buckeye Watershed Project



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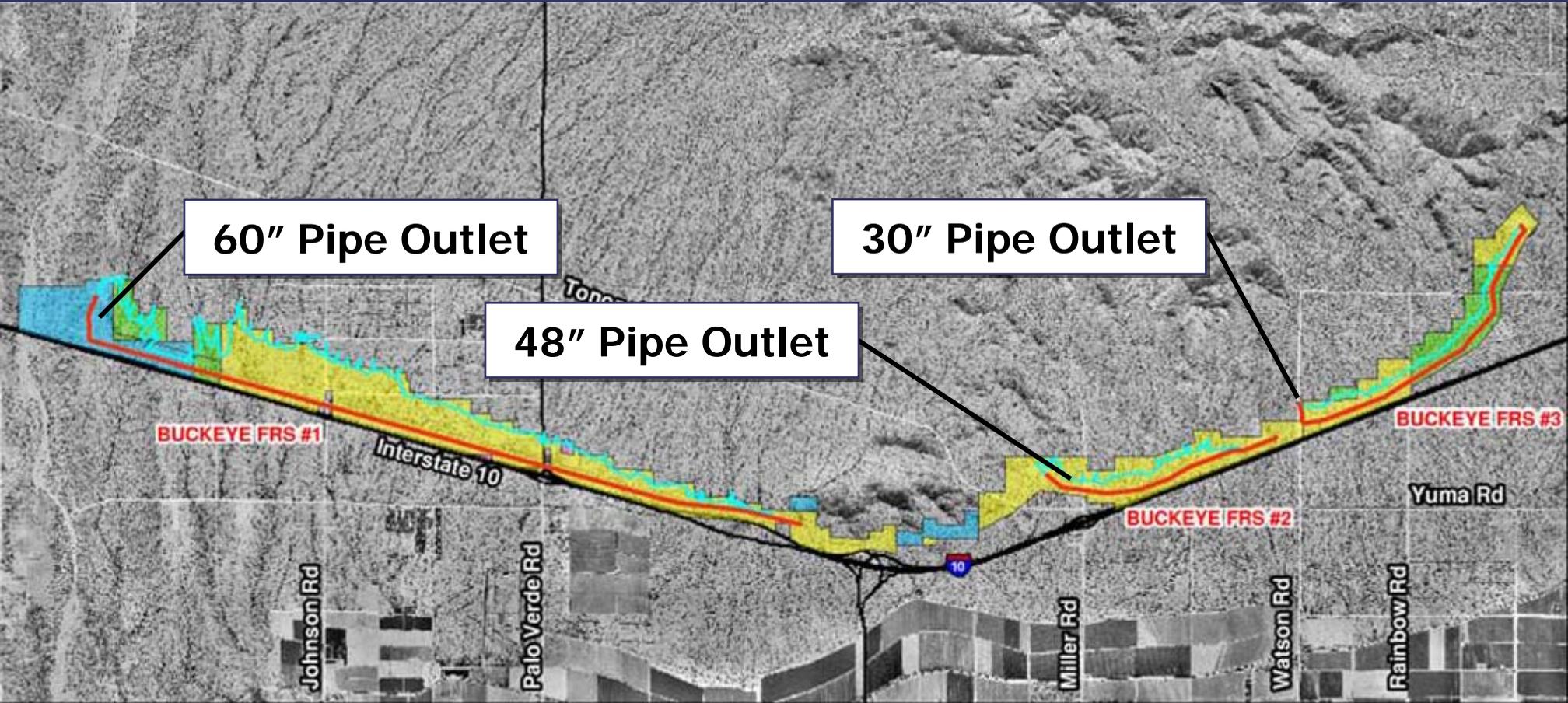
Buckeye FRS No.1 Rehabilitation Project

Floodways



Buckeye FRS No.1 Rehabilitation Project

Outlets for Dams



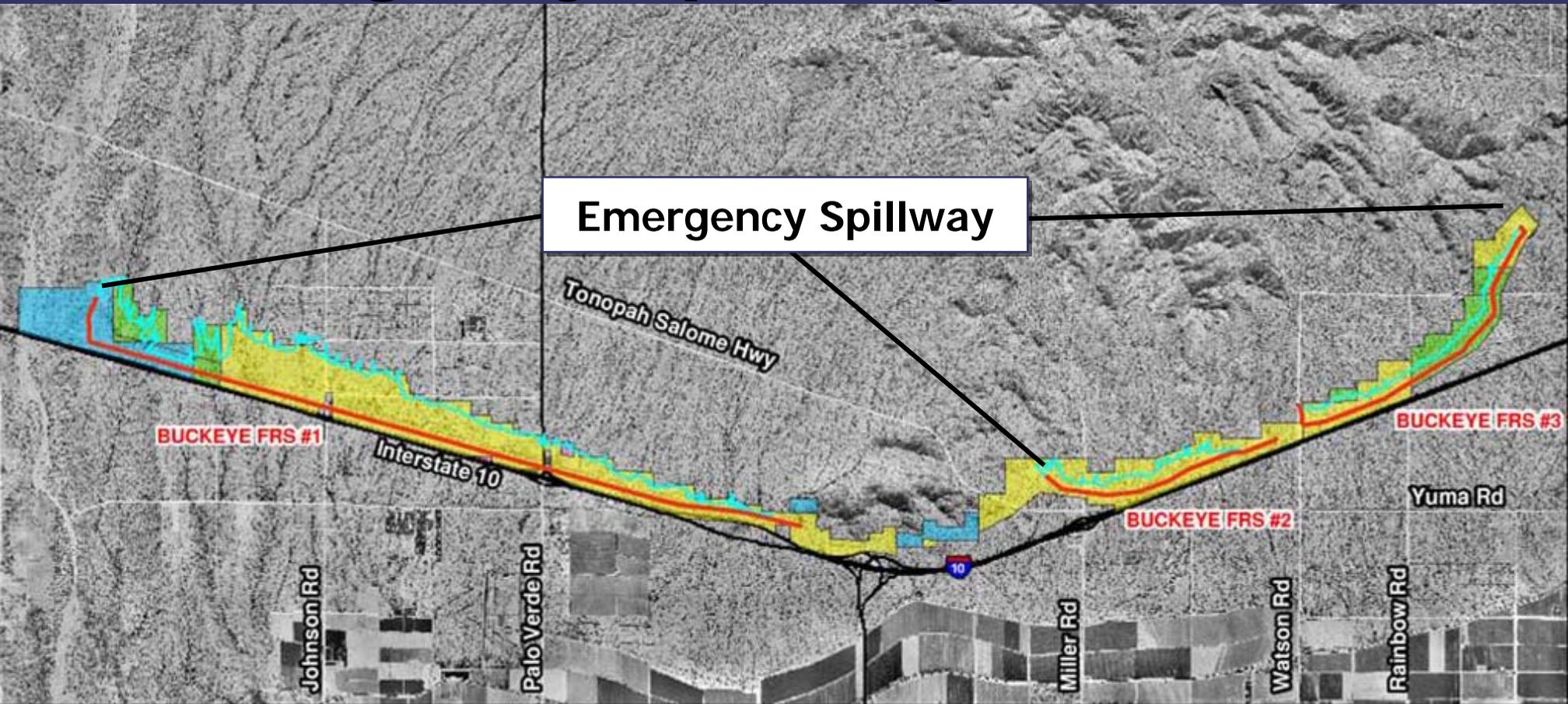
Buckeye FRS No.1 Rehabilitation Project

Buckeye FRS No.1 Outlet



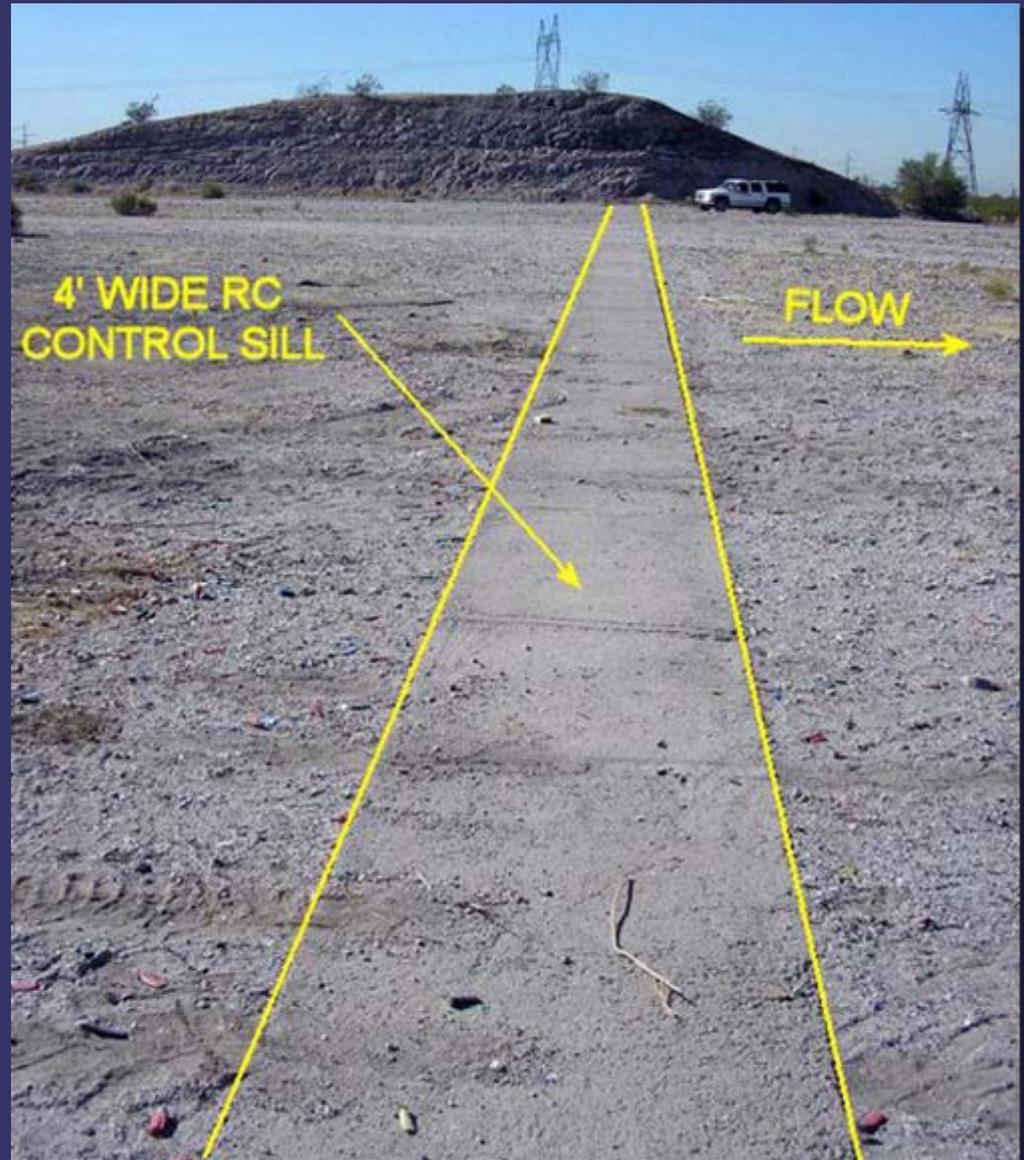
Buckeye FRS No.1 Rehabilitation Project

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

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 Partners

Natural Resources

Conservation Service (NRCS)

- Federal Workplan and Environmental Assessment
- Dam Rehabilitation Program
(PL-462: 65-35 cost share)
- Multi-use Recreational Component
(50-50 cost share)
 - District Encourages Recreational
Cost Share By Others



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Buckeye FRS No.1 Rehabilitation Project Partners

Flood Control District Funding

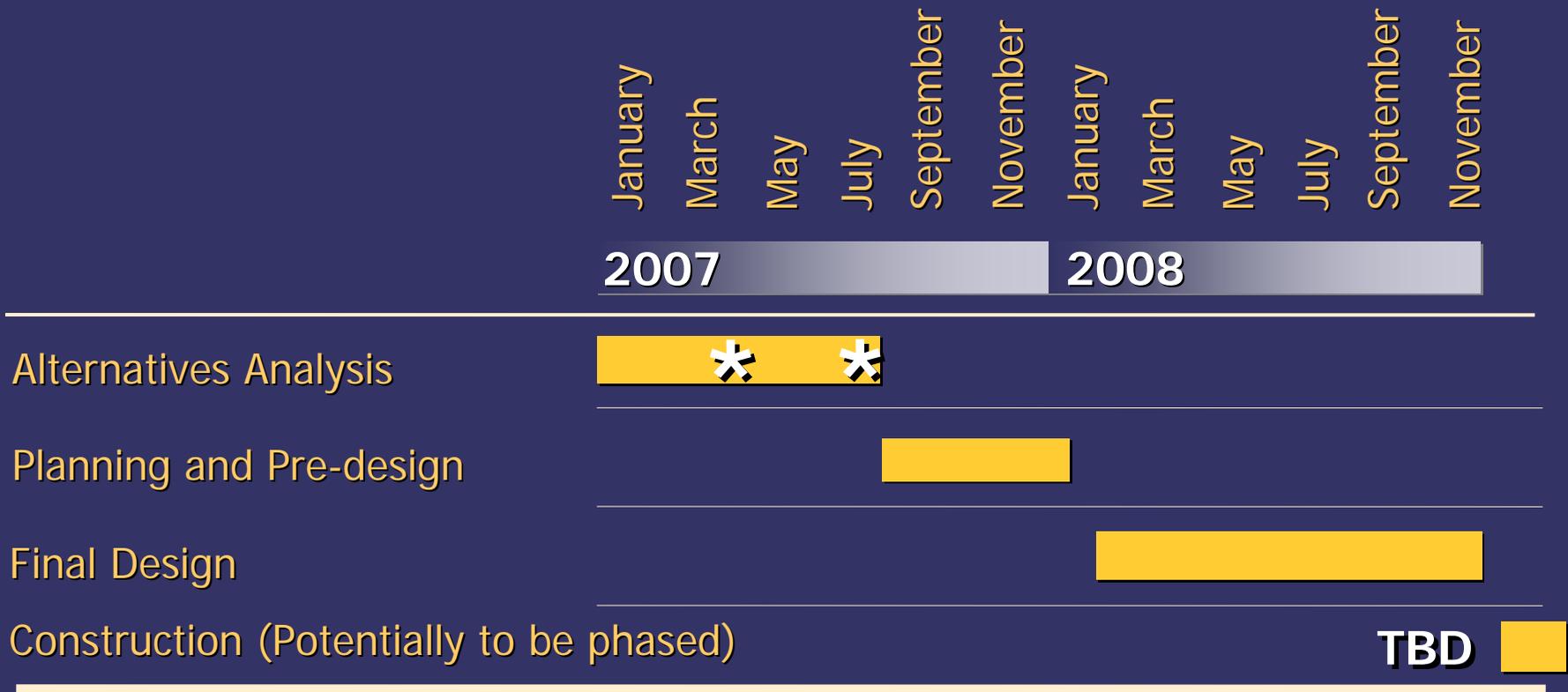
- Capital Improvement Program
- Compete with Other Flood Control Projects



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Buckeye FRS No.1 Rehabilitation Project Partners

Schedule



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Scenery, Recreation and Open Spaces Resource Assessment

Jon Loxley

Landscape Architect Planner
Landscape Architecture Branch

Scenery, Recreation and Open Space Goals

- Protect landscape character
- Promote recreation uses
- Preserve open space



Gila River Looking Northwest Towards White Tank Mountains



Project Performance Objectives

- Protect Landscape Character
 - Complement landscape character
 - Retain distinctive scenic features
 - Maintain desert views
 - Restore degraded landscapes



Project Performance Objectives

- Promote Recreation Use
 - Protect existing parks and recreation areas
 - Maximize opportunities to meet future recreation needs
 - Accommodate Maricopa Regional Trail

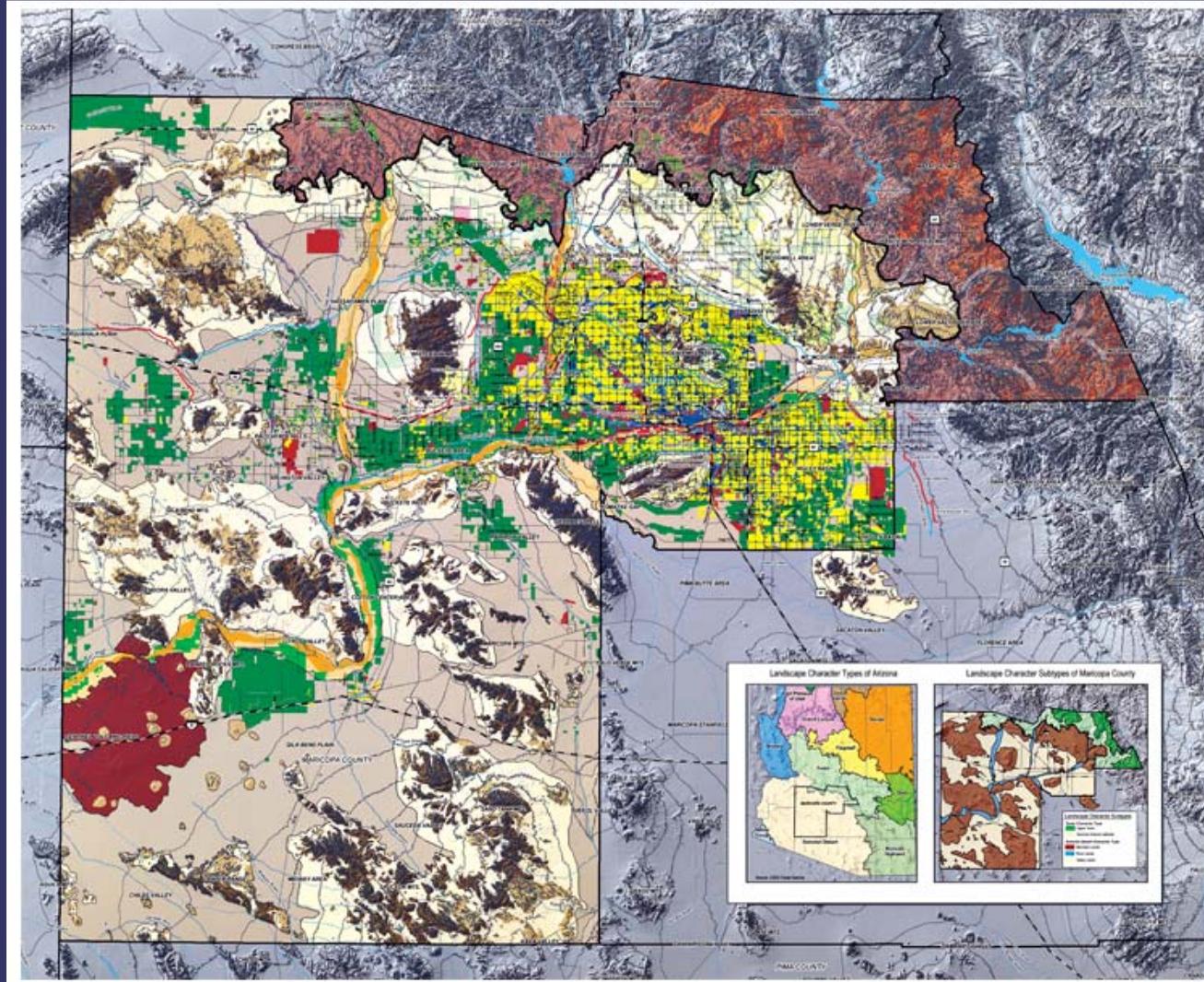


Project Performance Objectives

- Preserve Open Space
- Achieve consistency with MAG Desert Space Plan
 - Achieve consistency with local general plan



Scenery Resources Assessment for Maricopa County



Existing Landscape Character Units

TONTO CHARACTER TYPE

- | | |
|--|----------------------------------|
| Sonoran Arizona Uplands Subtype | Upper Tonto Subtype |
| Natural and Pastoral Sonoran Arizona Uplands | Natural and Pastoral Upper Tonto |
| Rural Sonoran Arizona Uplands | Rural Upper Tonto |
| Suburban Sonoran Arizona Uplands | Suburban Upper Tonto |
| Industrial Sonoran Arizona Uplands | |

SONORAN DESERT CHARACTER TYPE

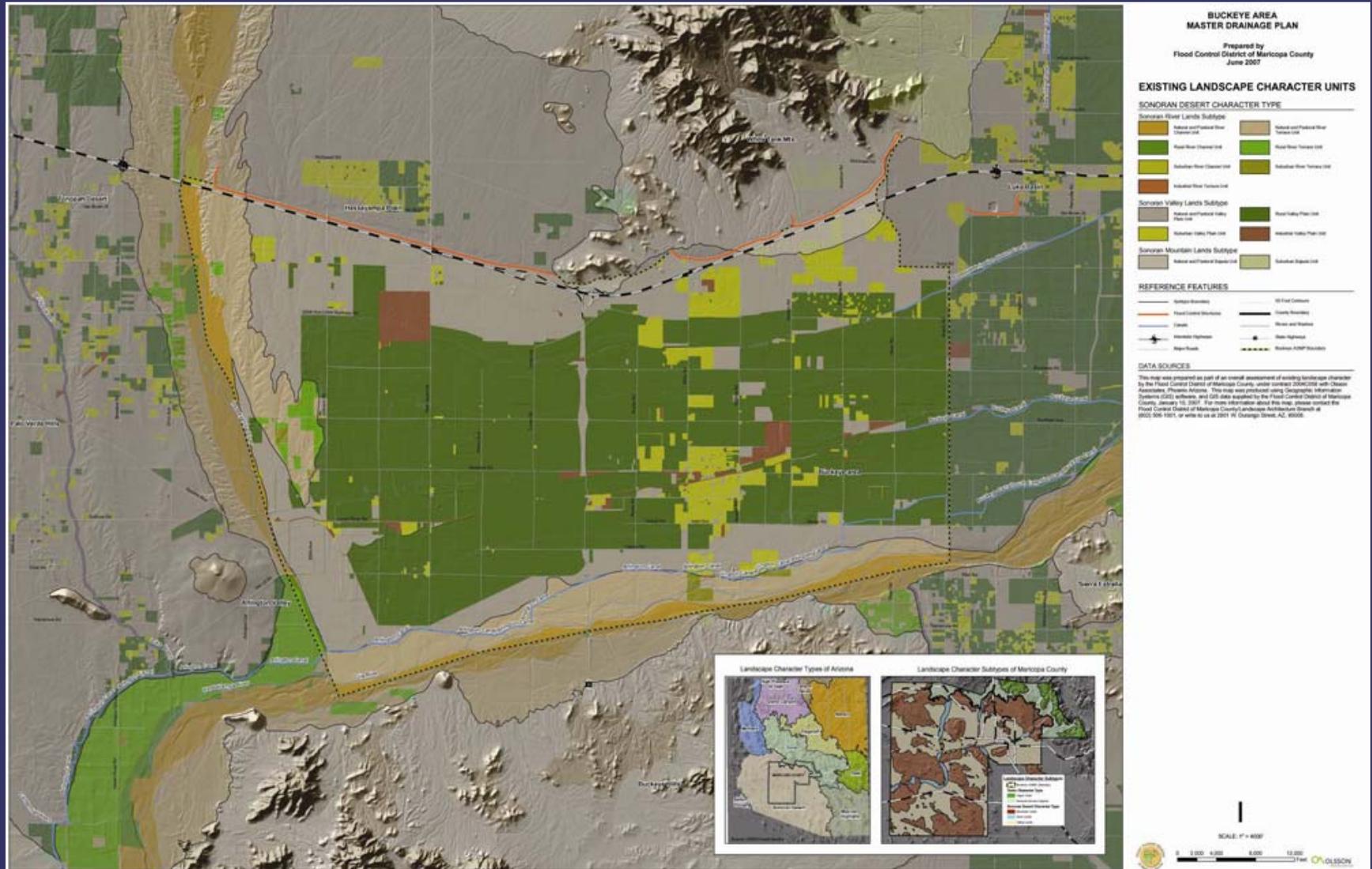
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|--|---|
| Sonoran River Lands Subtype | Natural and Pastoral River Terrace Unit |
| Natural and Pastoral River Channel Unit | Rural River Terrace Unit |
| Rural River Channel Unit | Suburban River Terrace Unit |
| Suburban River Channel Unit | Urban River Terrace Unit |
| Urban River Channel Unit | Industrial River Terrace Unit |
| Industrial River Channel Unit | |
| Sonoran Valley Lands Subtype | Natural and Pastoral Valley Plains Unit |
| Natural and Pastoral Valley Rivers and Washes Unit | Rural Valley Plains Unit |
| Rural Valley Rivers and Washes Unit | Suburban Valley Plains Unit |
| Suburban Valley Rivers and Washes Unit | Urban Valley Plains Unit |
| Urban Valley Rivers and Washes Unit | Industrial Valley Plains Unit |
| Industrial Valley Rivers and Washes Unit | |

Sonoran Mountain Lands Subtype

- | | |
|-------------------------------------|--|
| Natural and Pastoral Arroyo Unit | Suburban Foothills Unit |
| Rural Arroyo Unit | Urban Foothills Unit |
| Suburban Arroyo Unit | Industrial Foothills Unit |
| Urban Arroyo Unit | Natural and Pastoral Mountains Unit |
| Industrial Arroyo Unit | Rural Mountains Unit |
| Natural and Pastoral Bajada Unit | Suburban Mountains Unit |
| Rural Bajada Unit | Urban Mountains Unit |
| Suburban Bajada Unit | Industrial Mountains Unit |
| Industrial Bajada Unit | Natural and Pastoral Volcanic Field Unit |
| Natural and Pastoral Foothills Unit | Rural Volcanic Field Unit |
| Rural Foothills Unit | Suburban Volcanic Field Unit |



Scenery Resources Assessment for Buckeye ADMP



Flood Protection Methods



Non-Structural

1 2 3 4 5

- Natural Form
- Natural Materials
- Structure Not Present



Soft Structural

1 2 3 4 5

- Organic Form
- Earthen Materials
- Structure Not Visible



Semi-Soft Structural

1 2 3 4 5

- Organic Form
- Earthen Materials
- Structure Slightly Visible



Hard Structural w/ Aesthetic Treatment

1 2 3 4 5

- Curvilinear Form
- Hard Material
- Highly Visible as a Feature Attraction



Semi-Hard Structural

1 2 3 4 5

- Regular Geometric Form
- Earthen Materials
- Strongly Visible



Hard Structural w/o Aesthetic Treatment

1 2 3 4 5

- Regular Geometric Form
- Hard Materials
- Very Strongly Visible

Project Aesthetics Advisory Committee (PAAC)

- Review Scenery, Recreation and Open Space Assessments
- Identify opportunities for integrating aesthetic and multi-use features in to alternatives
- Committee composed of scenery, recreation and open space professionals and advocates





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Buckeye Area Projects **Introduction of Team Members**



Supervisor Max Wilson, District 4
Supervisor Mary Rose Wilcox, District 5

Buckeye Area Projects

General Questions



Supervisor Max Wilson, District 4
Supervisor Mary Rose Wilcox, District 5

Buckeye Area Projects **Open House**

Thank You for Attending
