



# Wittmann Area Drainage Master Plan McMicken Dam Project

## Public Information Meeting

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Regional Area Planning Manager

# Flood Control District

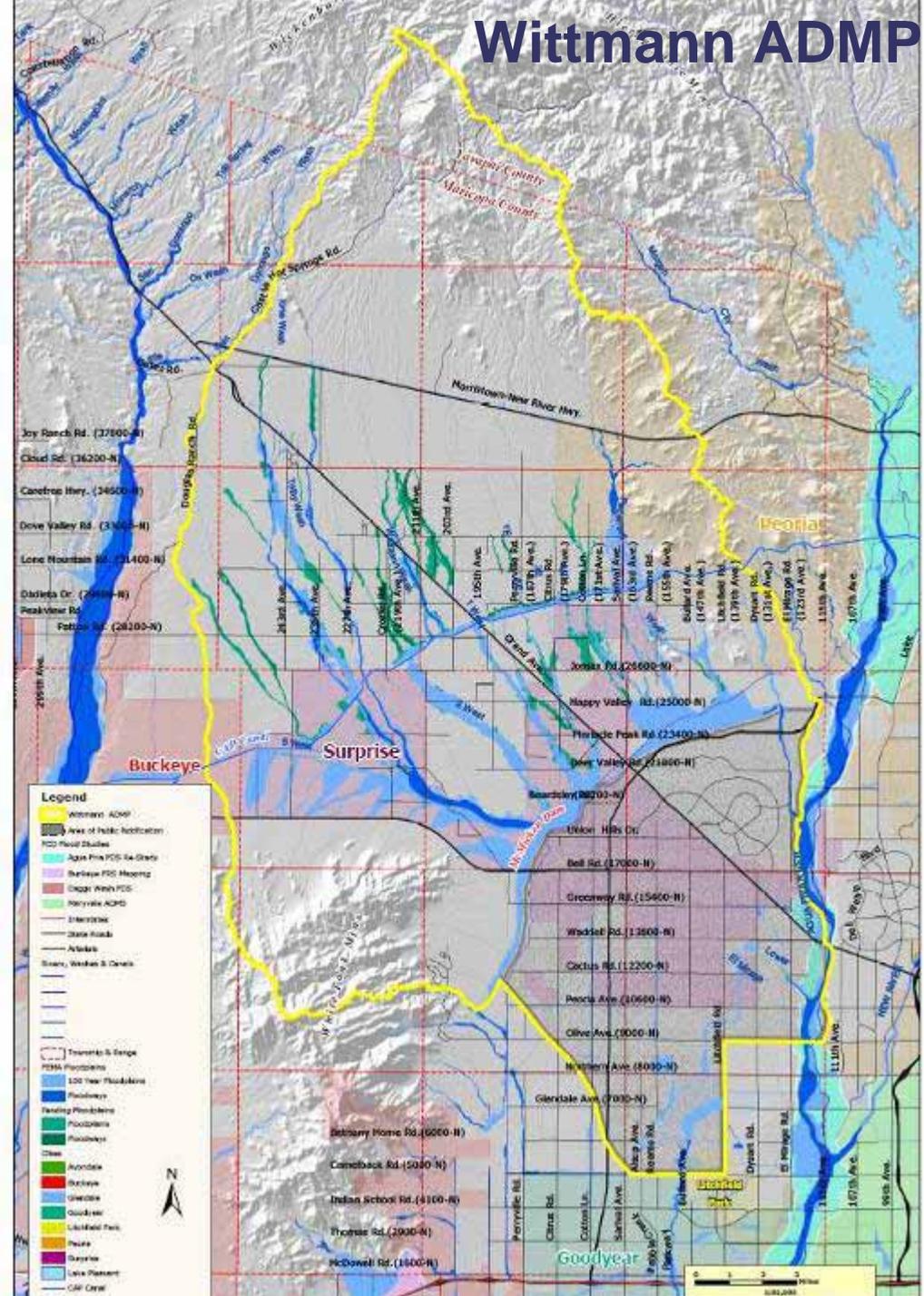
The Mission of the Flood Control District is to provide flood hazard identification, regulation, remediation, and education to the people in Maricopa County so that they can reduce their risks of injury, death, and property damage due to flooding while enjoying the natural and beneficial values served by floodplains.

This is achieved through a variety of flood management studies, projects and programs.



# Study Boundary

- Northwest Valley
- Watershed run-off to McMicken Dam Project



# Purpose - Wittmann ADMP McMicken Dam Project

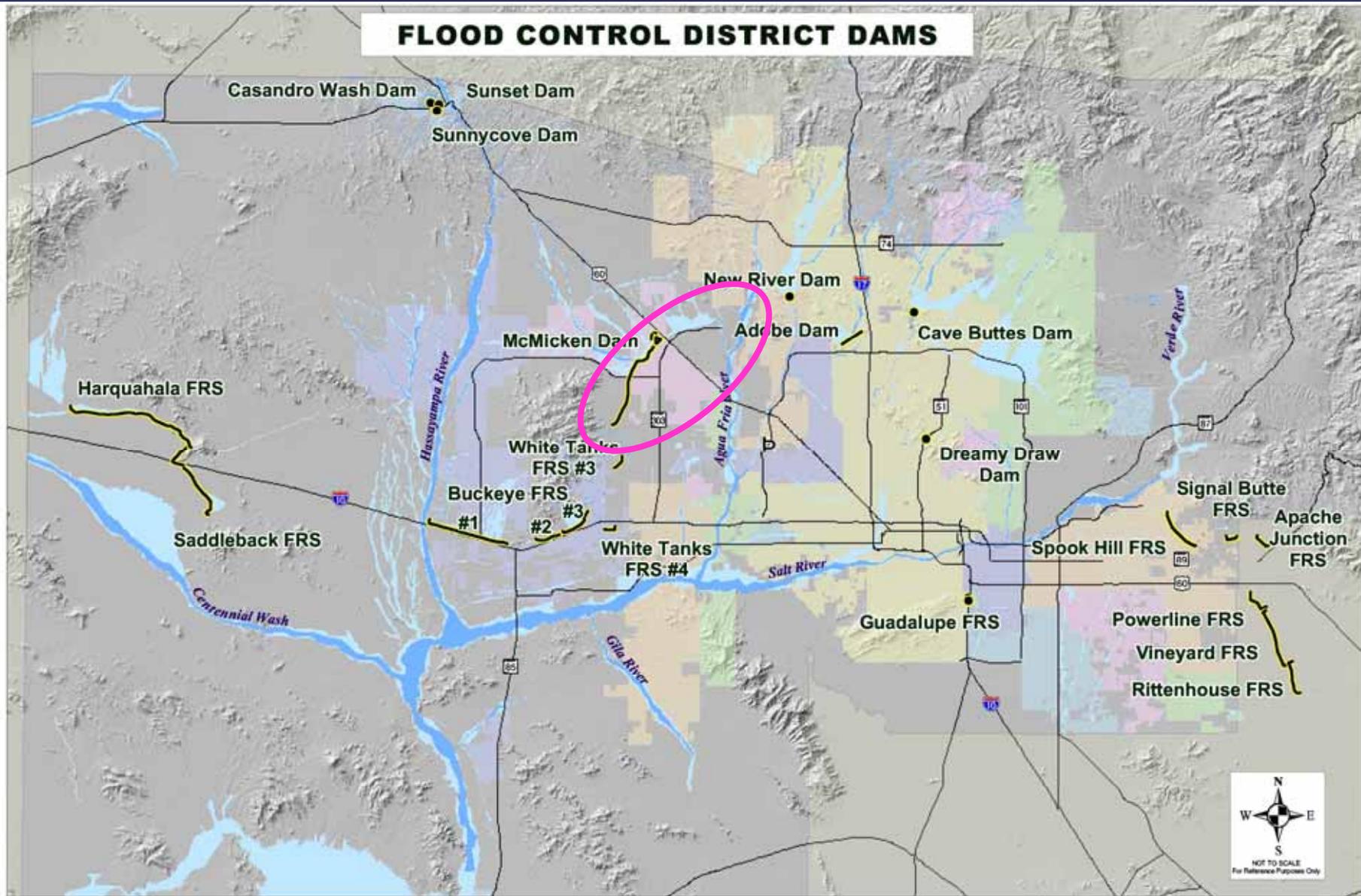
- To analyze and develop alternatives
  - ✓ for mitigating the identified flood and erosion hazards in the Wittmann Study Area, and
  - ✓ for the overall rehabilitation or replacement of the McMicken Dam Project
- To coordinate with project stakeholders and obtain public input to select an implementable alternative for the McMicken Dam Project

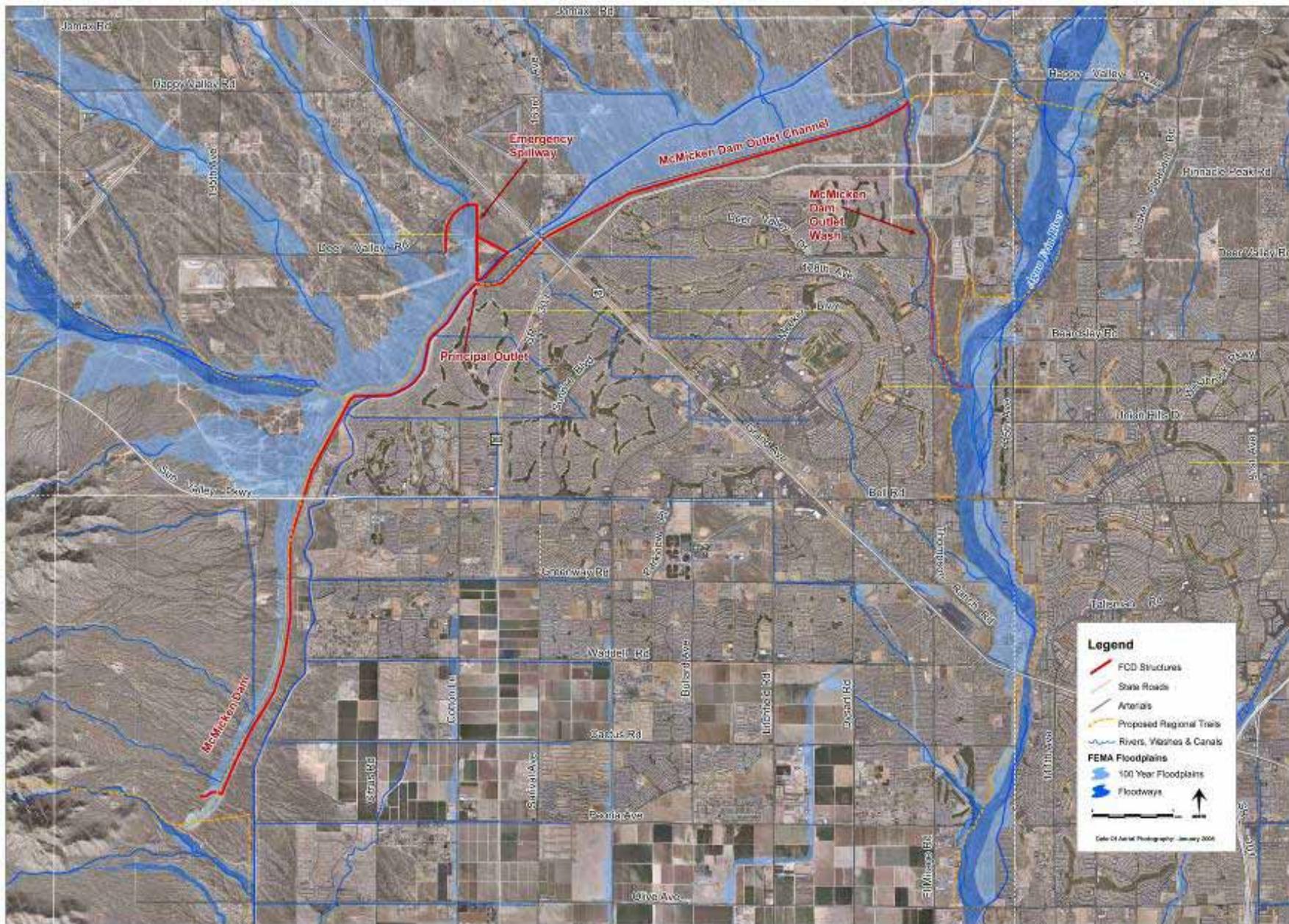
# Wittmann

## Area Drainage Master Plan

- Encompasses 380 square miles, 19-mile McMicken Dam Project
- 3 cities, 2 counties, unincorporated communities, federal and state land
- Major man-made features: Sun Valley Parkway, US 60 and SR 74, CAP, BNSF Railroad, SR303L, Beardsley Canal, McMicken Dam Project
- ADMSU completed 2005 (problem assessment)
- ADMP begun March 2006 (solutions)

# FLOOD CONTROL DISTRICT DAMS





## McMicken Dam Project (Wittmann Area Drainage Master Plan)



# Background – McMicken Dam

- 1951 - Record rainfall 7.3"-24hr. (13.6" total storm)
- 1954-1956 - Constructed by Corps of Engineers
- 1976 - Breached by Corps of Engineers due to transverse cracking
- 1982 - Breaches repaired and central drain/filter constructed by FCD
- 1990's - District acquired land in Fee to the flood pool
- 1999 - FCDMC dam safety program upgraded

# Background – McMicken Dam

- 2002 - Geotechnical Investigations  
Fissures identified adjacent to south end of dam
- 2003 - Fissure Remediation  
Alternative  
Analysis
- 2005 - McMicken  
Dam FRZR  
constructed



# Background – McMicken Dam

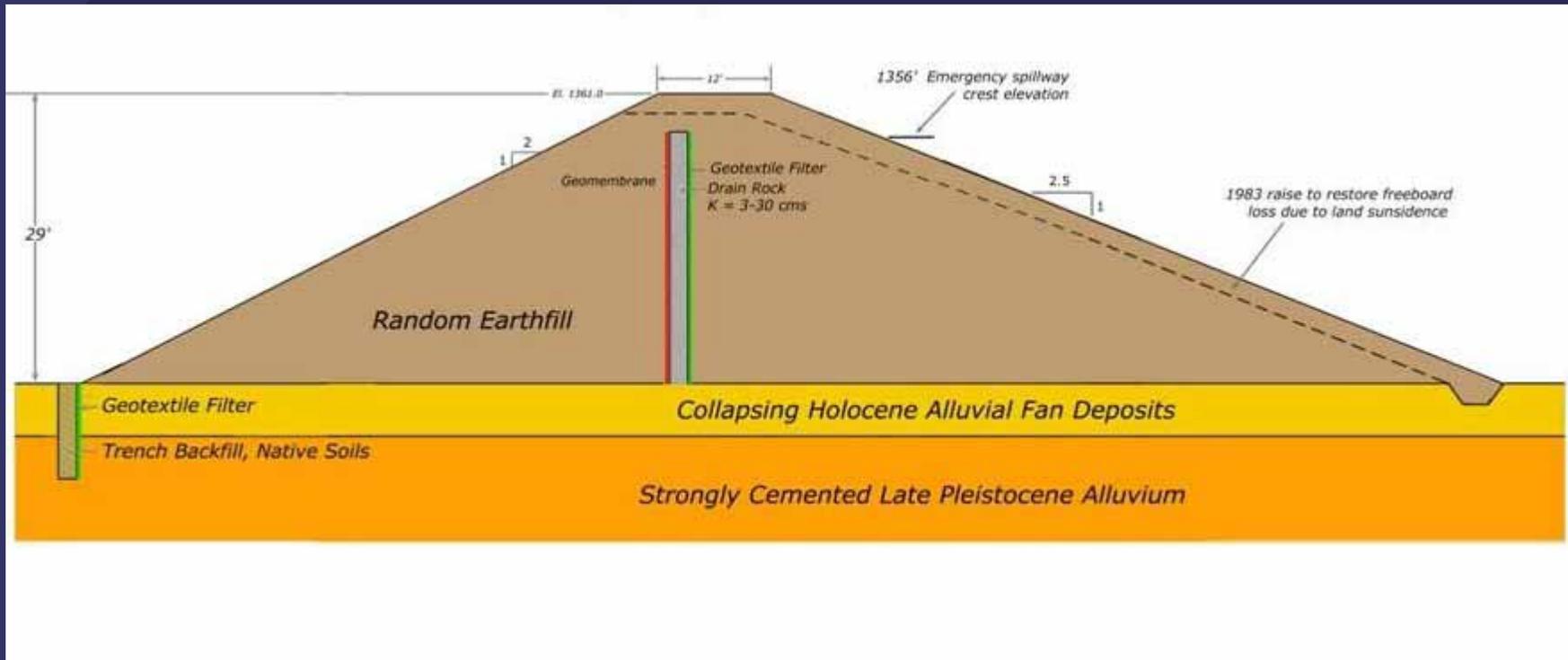
- 2003 – Updated hydrology and hydraulics
- 2004 - IGA Corps of Engineers for Feasibility Study
- 2004 – Preliminary Alternatives Analysis - Wittmann ADMSU
- 2006 – Wittmann ADMP McMicken Dam Project



# McMicken Dam Details

- 50 Year Old Earthfill Flood Control Dam
- Original function was to protect Luke AFB and agricultural lands
- Provides 100-year Flood Protection
- Crest Length is 49,500 feet (9.4 miles)
- Maximum Structural Height is 34 feet
- Total Watershed Area 250 square miles
- Operated and maintained by FCDMC
- ADWR is Jurisdictional Agency
- Dam Classification: High Hazard/Intermediate with Safety Deficiencies

# Detail – Inside the Dam



# Project Issues

- New state and federal regulations require modifications
- Age of the structure, earth fissures, land subsidence, vegetation overgrowth
- Transportation and utility corridors for increased development
- Maintaining regional open space, multi-use and trails
- Damage from trespassing and off-road vehicles

# Project Issues



Vegetation  
overgrowth



Off-road vehicle  
damage

# FCDMC Interim Trail Concept Plan



## Maricopa County Regional Trail System Plan

### Phase One

- White Tank Mountain Regional Park
- Lake Pleasant Regional Park
- Cave Creek Recreation Area
- Spur Cross Ranch Conservation Area

### Executive Summary

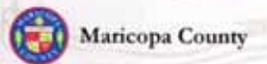
#### Vision

*Our vision is to connect the majestic open spaces of the Maricopa County Regional Parks with a nonmotorized trail system.*



June 19, 2002

**Maricopa County Trail Commission**  
 Maricopa County Department of Transportation  
 Flood Control District of Maricopa County  
 Maricopa County Parks and Recreation  
 Maricopa County Planning and Development



# Landscape Aesthetics and Recreation Multi-Use

- Fully incorporate scenery resource assessment and landscape aesthetics into the mitigation alternatives
- Incorporate the requirements for the County Regional Trail as part of the project
- McMicken Dam FRZR Project developed as a K&G showcase project



# Schedule

**Estimated Schedule for Wittmann ADMP**

	2005		2006				2007			
	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
<b>Complete ADMSU</b>										
ADMSU Report Finalization										
ADMSU FEMA Review										
<b>Start ADMP</b>			☀							
Start Review Existing Conditions										
Floodplain Delineation (Fan)										
Rules of Development										
Stakeholder Coordination					☀		☀		☀	
Public Involvement					☀			☀		
Alternatives Analysis McMicken Dam Project										
Recommendations										

# Summary

- Geotechnical data collection in-process
- Information to citizens, comments from citizens
- Next steps – to develop a series of feasible alternatives
- Coordinate alternatives with possible solutions in entire study area
- Public meeting to review potential alternatives in 2007

# Open House

**Opportunity to talk individually  
with staff and consultants**

