August 26, 2010

Stakeholder Meeting:

Planning Study For Rehabilitation or Replacement of:

Powerline FRS
Vineyard Road FRS
Rittenhouse FRS

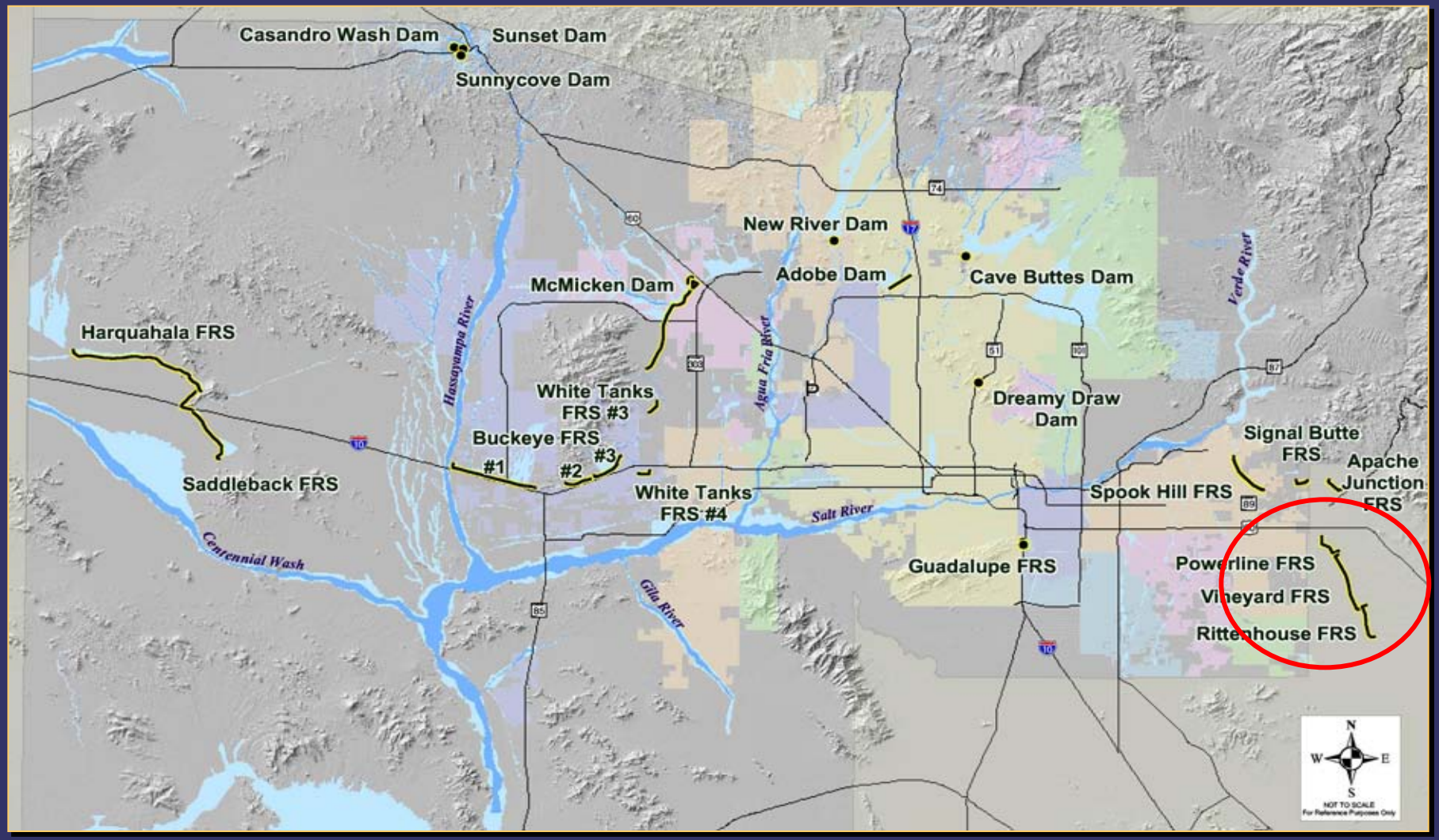
Bob Eichinger, P.E., CFM
Kimley Horn Project Manager

Felicia Terry, P.E., CFM
FCD Project Manager

Meeting Purpose

- Define Project Purpose and Need
- Outline Stakeholder Involvement

District Flood Control Dams

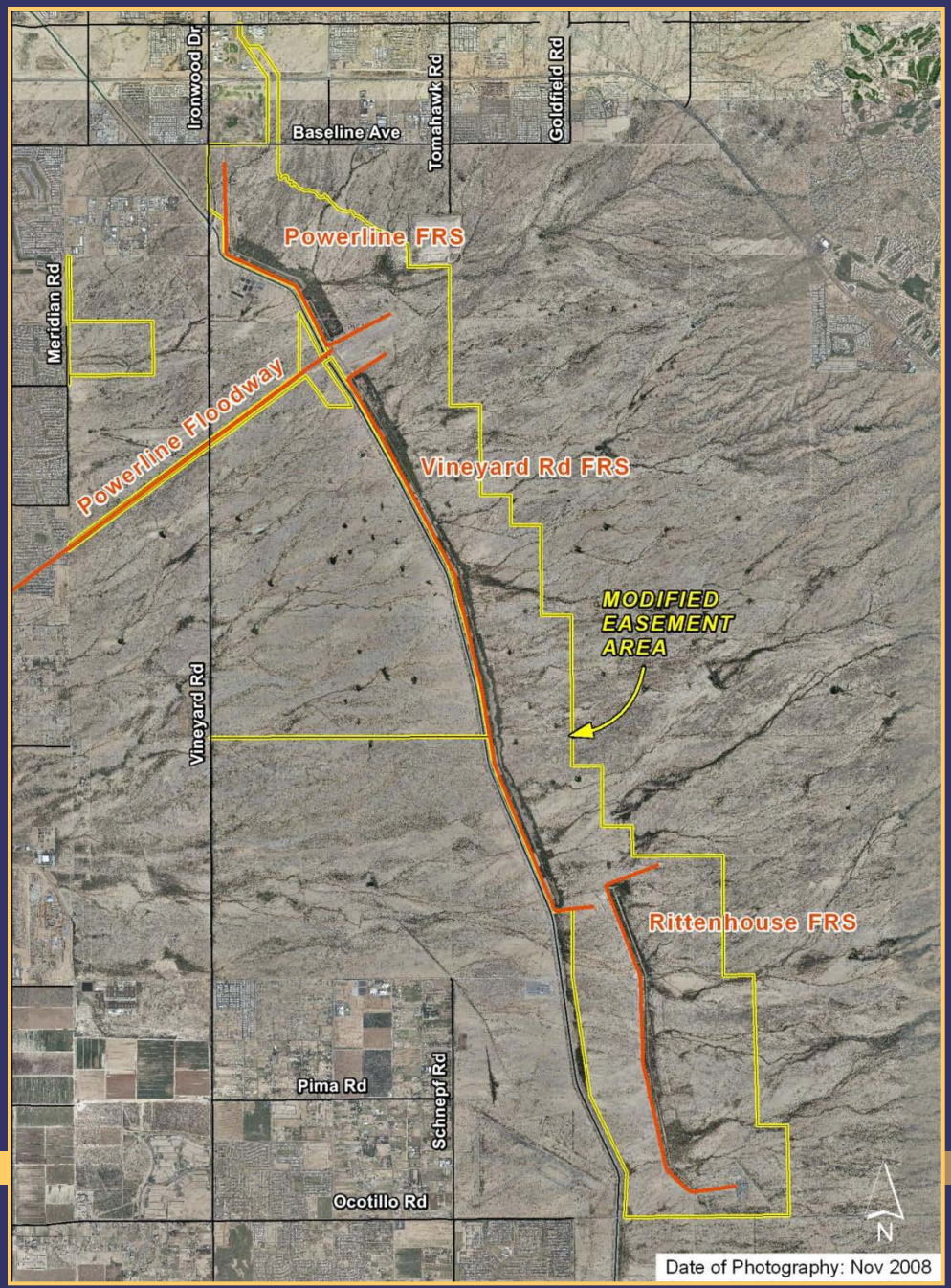


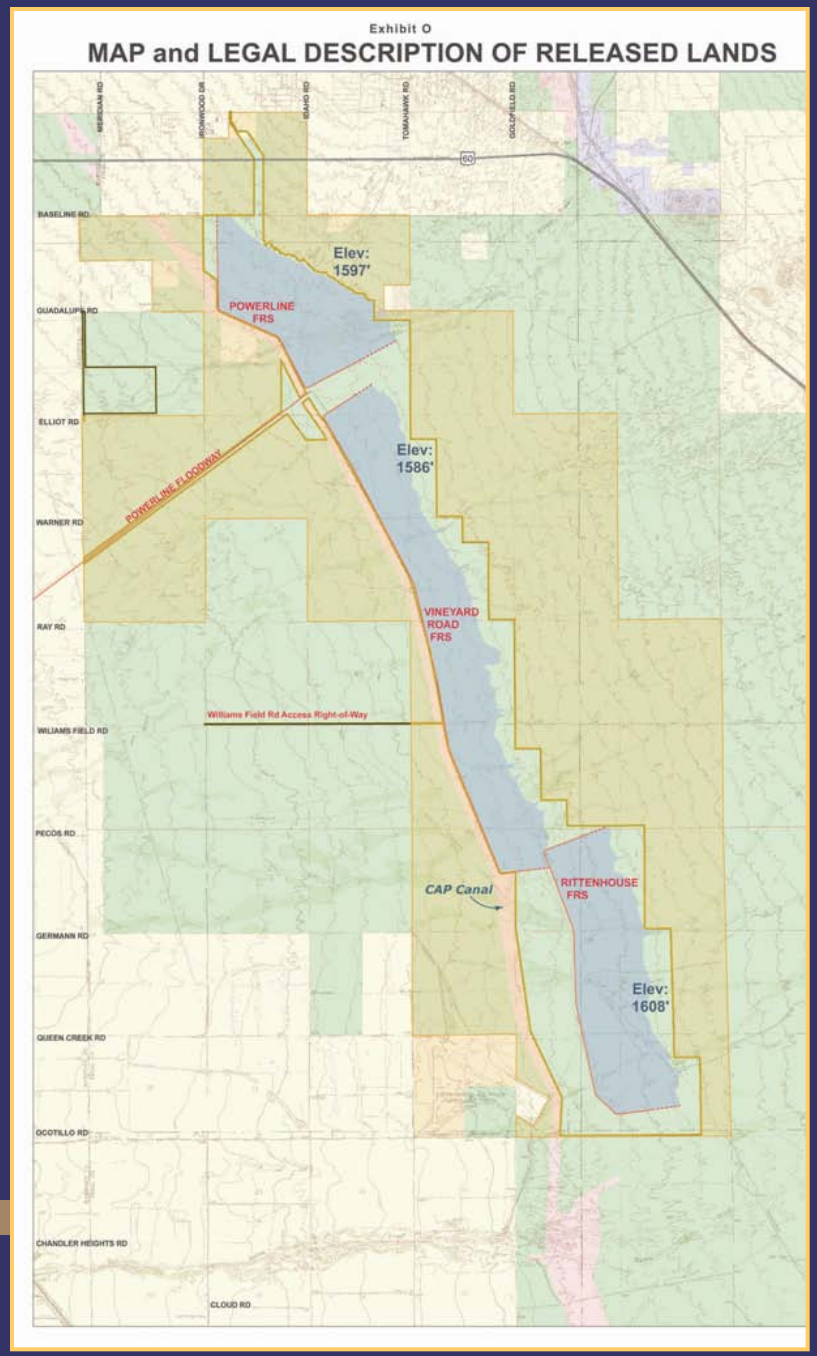
Powerline FRS, Vineyard Road FRS, Rittenhouse FRS (PVR)

Project Background:

- Three Flood Control Dams Built by SCS (Now NRCS) from 1967 to 1969
- PVR Dams Modified with Central Filters: 1991, 1983, 1979
- District is Local Sponsor
- District Operates and Maintains Under Agreements with NRCS
- ADWR is Regulatory Agency
- Located on Arizona State Land Department (ASLD) Property within Superstition Vistas area

Modified Easement Area





Powerline FRS, Vineyard Road FRS, Rittenhouse FRS (PVR)

Project Background:

- PVR Dams Total 11.6 Miles in Length
- PVR Dams Max. Heights: 21 Ft, 16.5 Ft, 24.3 Ft
- Total Flood Storage of 12,600 Acre-Feet
- Provide 100-year Flood Protection for 169 Square Miles
- Year 2000 Census Downstream Population: 157,000

Why are we Rehabilitating or Replacing the Dams?

- Potential for Overtopping During Large Flood Event (PMF)
- Embankment Cracking
- Foundation Deficiencies
- Outlet Pipe Deficiencies
- Earth Fissures: Powerline FRS
- Land Subsidence: Powerline FRS, Vineyard Road FRS (North Third of Dam)

Project Goals

- Primary District Goal Is Long-Term Flood Protection
- Minimized Project Footprint is A Secondary Goal

Project Objectives

- Develop and Evaluate Alternatives for Rehab or Replacement of The PVR Dams
- Select an Implementable Alternative
- Have NRCS be a Cost Share Partner
- Have Construction Completed in 10 to 15 Years

Overall Project Milestones

- Planning Study -2 years, (started Sept. 09)
  - See Work Chart for Work Assignments
- Rehabilitation Plan/EA and Watershed Agreement
- Final Design – 1.5 years – after Planning Study
- IGA with NRCS
- Construction in Phases

Issues for Consideration: Win-Win Project

- NRCS Project Partner: NED Alternative
- Environmental considerations
- Public Meetings
- Project Stakeholders Involvement
- Future Plans by Others: Roadway crossings and utilities
- Multi-Use and Landscape Aesthetics –By others

Regional Context Summary

- Land Use
  - Apache Junction / Pinal County/ Mesa / Queen Creek
  - Superstition Vistas
  - Portalis
- Transportation
  - Scenario B Framework (Superstition Vistas)
    - Street / Light Rail
  - ADOT Planning Corridors
    - AZ 802
    - North South Fwy

Regional Context Summary

- Open Space / Parks
  - Pinal County
    - Apache Junction
    - Superstition Vistas
    - Portalis
  - Maricopa County
    - Maricopa Trail
- Wildlife Corridors
- Site Analysis

Next Steps for Stakeholders

- Today – Develop Goal of Project
- 2nd Stakeholder Meeting
  - Brainstorm alternatives and narrow down to 10
- 1st Public Meeting
- 3RD Stakeholder Meeting
  - Recommendation for 4 alternatives
- 2nd Public Meeting
- 3rd Public Meeting

Stakeholder Involvement

- Stakeholder Issues
- Define Goals
- Stakeholder Expectations

Rehabilitation or Replacement of:
Powerline FRS
Vineyard Road FRS
Rittenhouse FRS

Questions / Discussion ?