



FEMA



Dewey-Humboldt

Area Drainage Master Study

Supported by:

Town of Dewey-Humboldt

Yavapai County Flood Control District

FEMA

Prepared by:

Kimley»Horn

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Study Purpose

The study will:

- More accurately define flood hazards in the area
- Identify mitigation solutions for known hazard areas
 - Prescott Street Low Water Crossing
 - Edds Sand Trail
 - Quarterhorse Lane
- Identify additional mitigation projects

Project Goals

- Identify mitigation solutions for areas impacted by flood flows and erosion
- Formulate a plan to mitigate flooding with cost-effective infrastructure
- Reduce flood hazards for residents

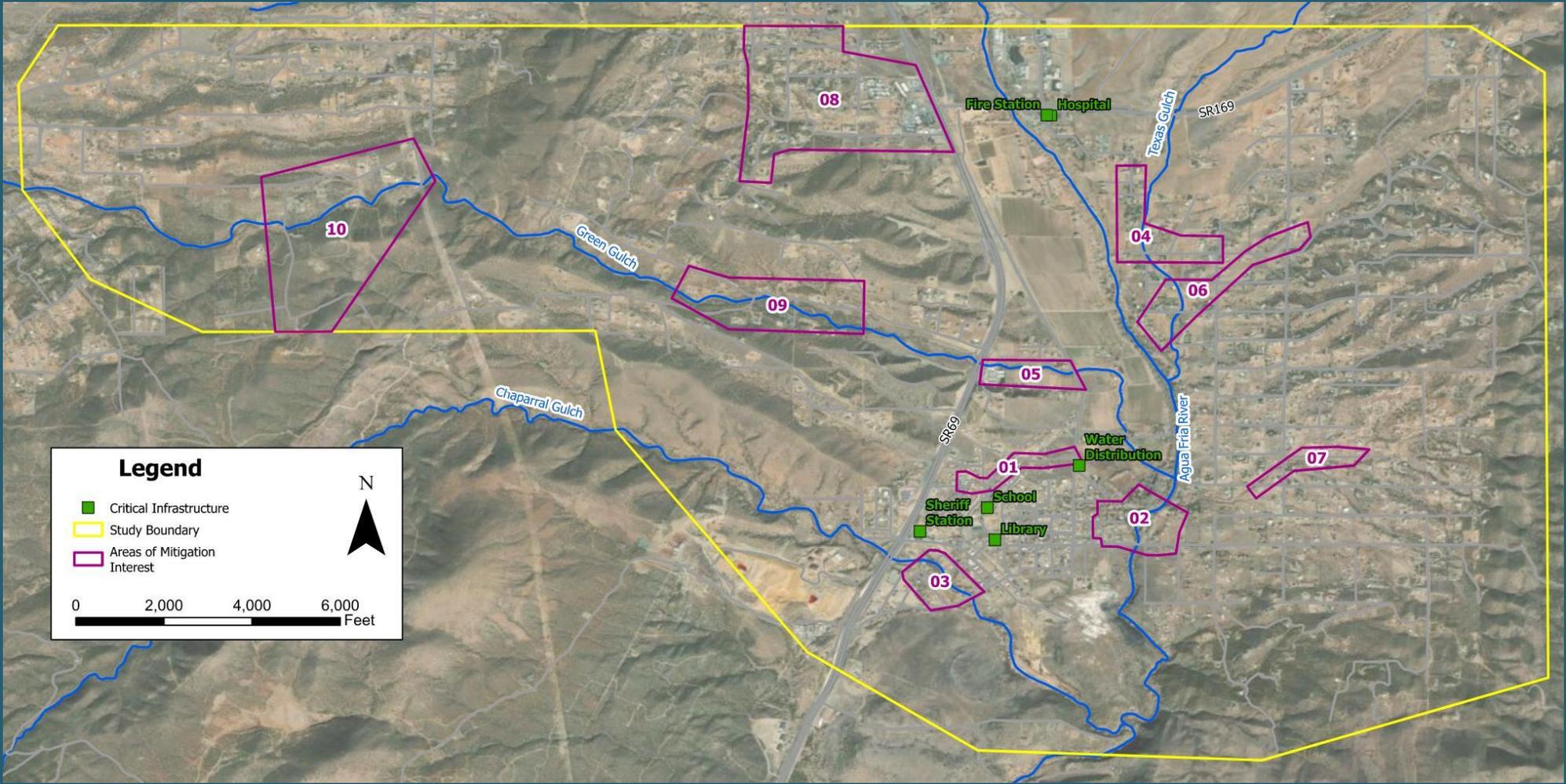
Meeting Purpose

- Provide information about study progress and the ten (10) flood prone areas identified
- Select three (3) areas for additional analysis

Work to Date

- Finalized modeling
- Evaluated road and structure impacts from modeling
- Reviewed previously identified areas of concern against modeling
- Identified ten (10) flood prone areas
- Prepared summary sheets with preliminary project ideas for each area





Legend

- Critical Infrastructure
- Study Boundary
- Areas of Mitigation Interest

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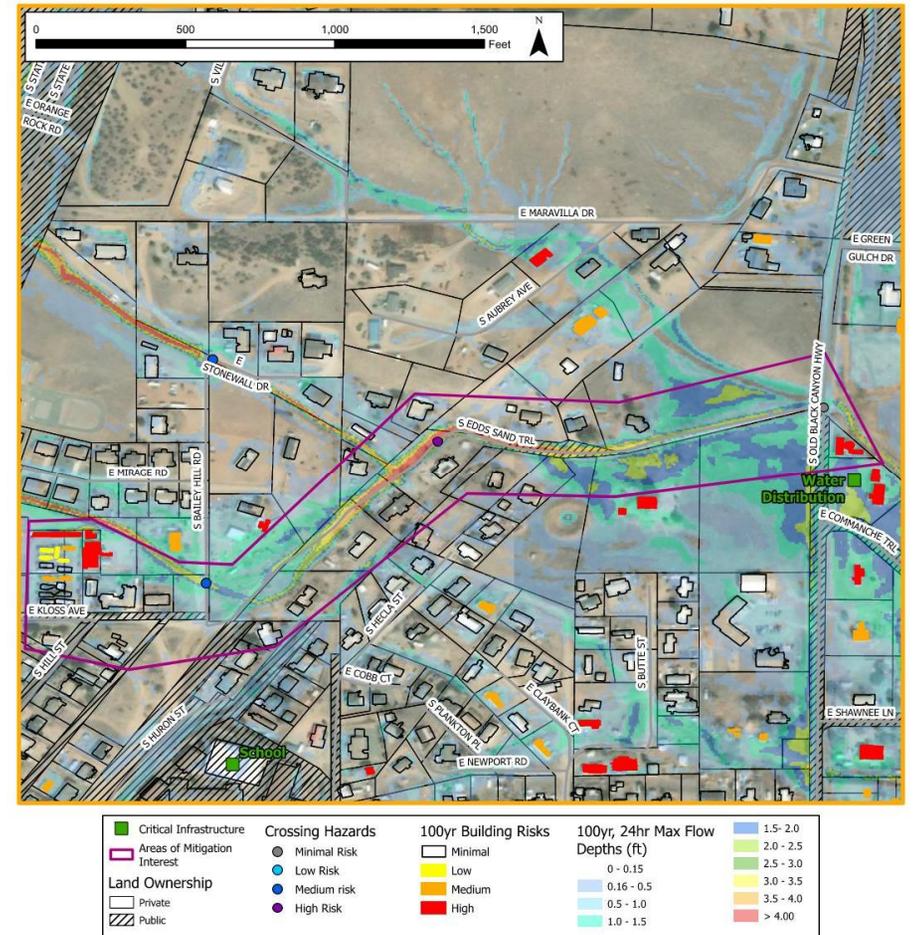
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Feet

Area 01

Potential Solutions:

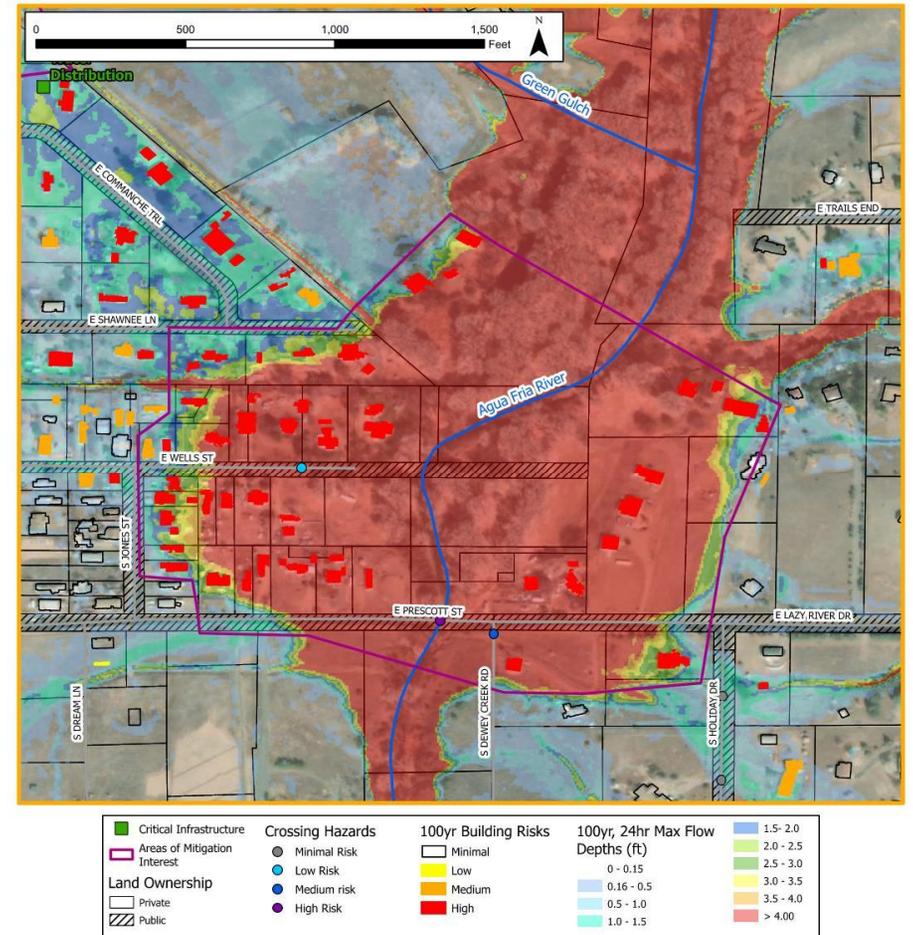
- Extend Mirage Road to SR 69
- A culvert or ditch along Edds Sands Trail that discharges downstream along this alignment
- Erosion protection east of Black Canyon Highway
- Low water crossing at the intersection of Edds Sand Trail and Old Black Canyon Highway
- Low water crossing at Edds Sand Trail and Bailey Hill Road intersection
- Upstream Basin
- Widen the conveyance channel east of Old Black Canyon Highway



Area 02

Potential Solutions:

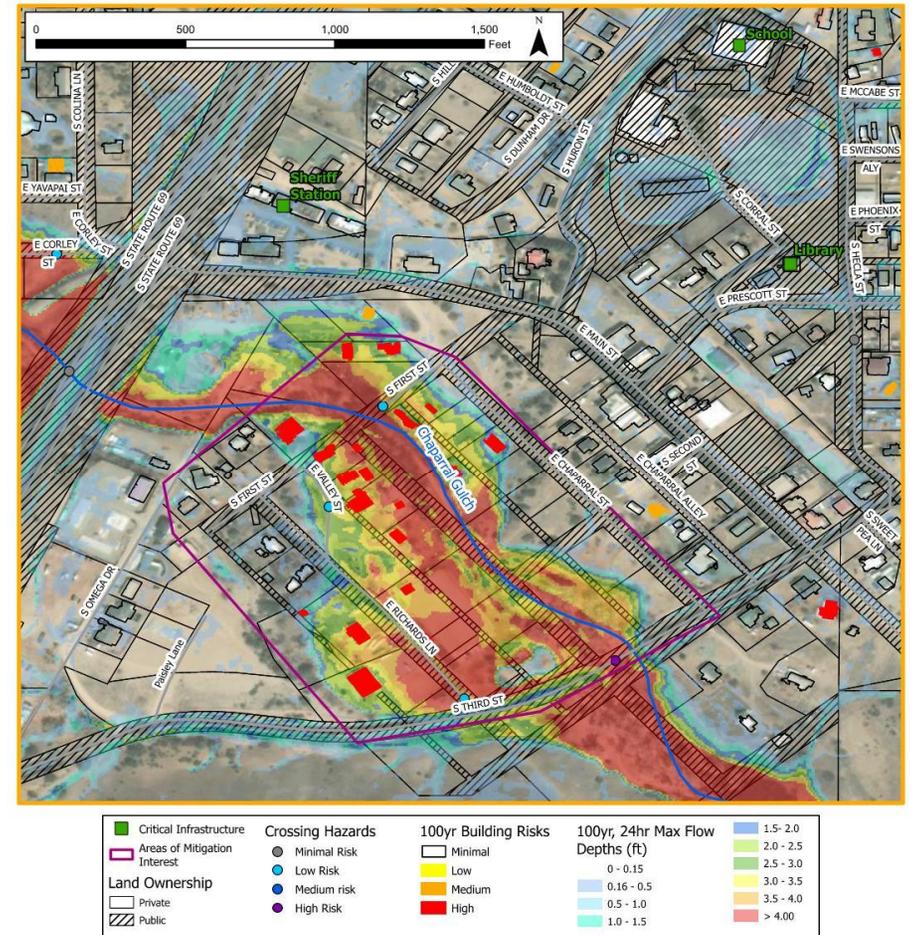
- Erosion protection at center of the project area along the Agua Fria River
- Bridge at Prescott Street and the Agua Fria River
- Improved low water crossing at Prescott Street and the Agua Fria River
- Maintenance of the Agua Fria River upstream of the Prescott Street crossing
- Flood Alert Gage and Community Warning System



Area 03

Potential Solutions:

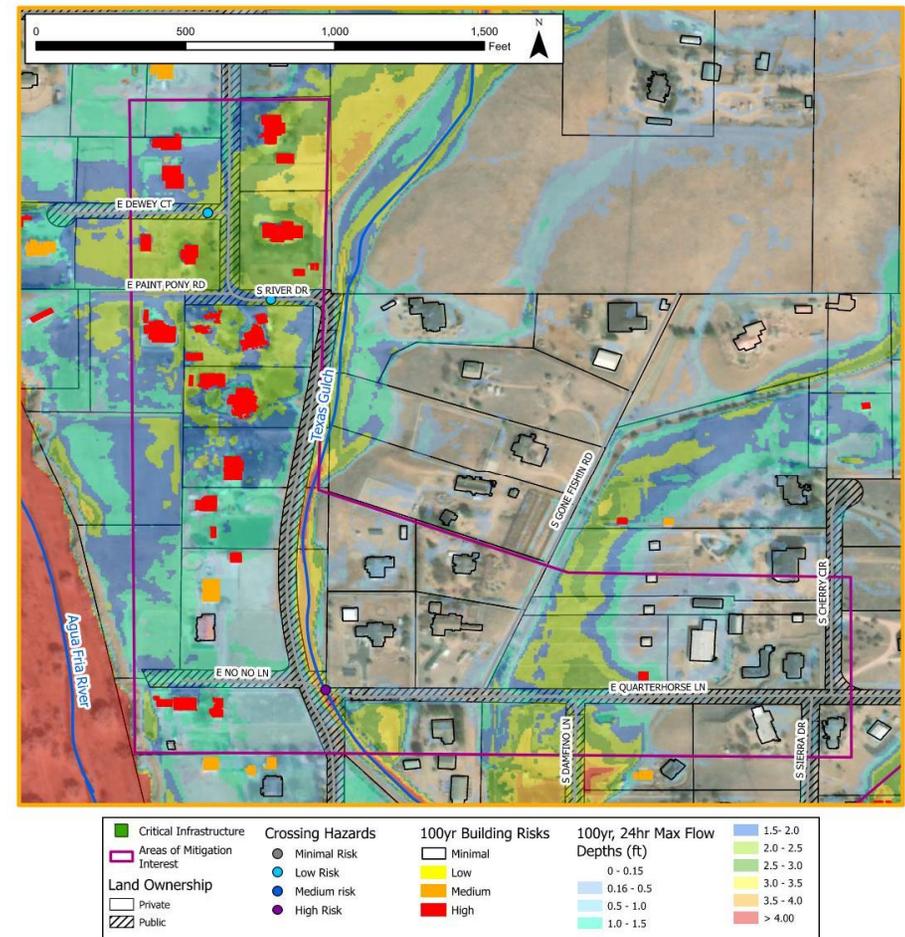
- Maintenance of the wash on both public and private property
- Improved conveyance at low water crossing along Third Street
- Conveyance improvements along Chaparral Gulch
- Flood Alert Gage and Community Warning System



Area 04

Potential Solutions:

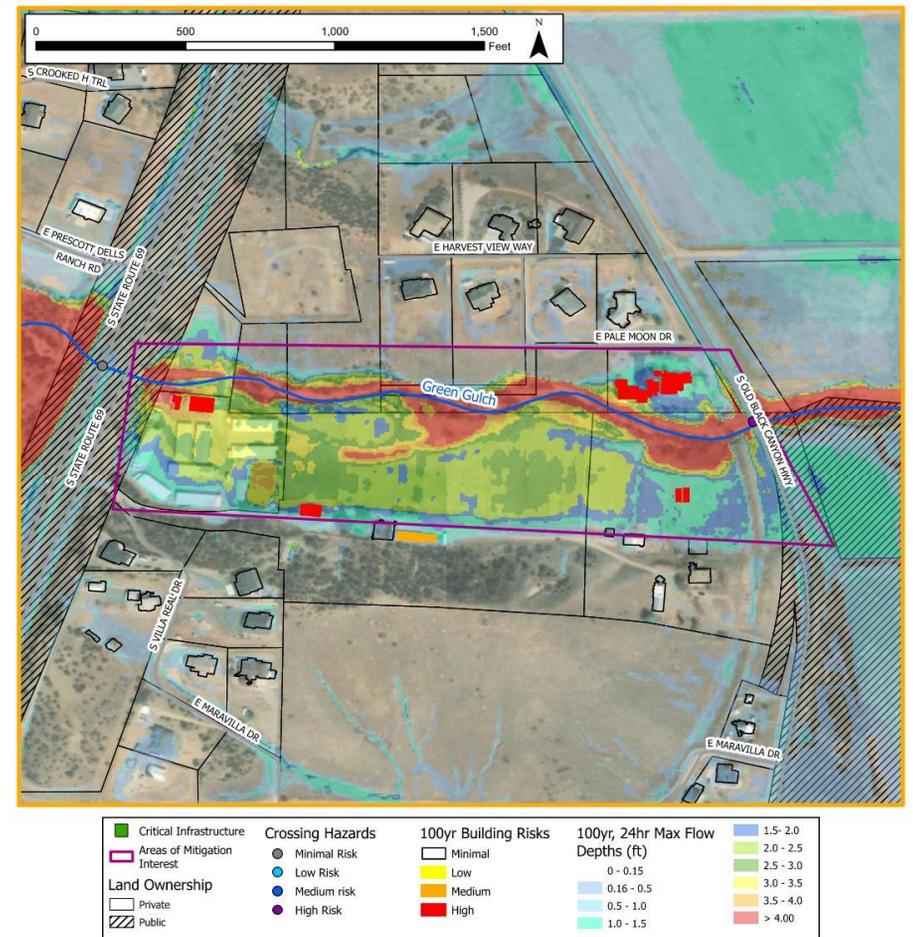
- Channel improvements along Texas Gulch to contain discharge
- Maintenance of the Texas Gulch berm and channel
- Improved low water crossing at the intersection of River Drive and Quarterhorse Lane
- Flood Alert Gage and Community Warning System



Area 05

Potential Solutions:

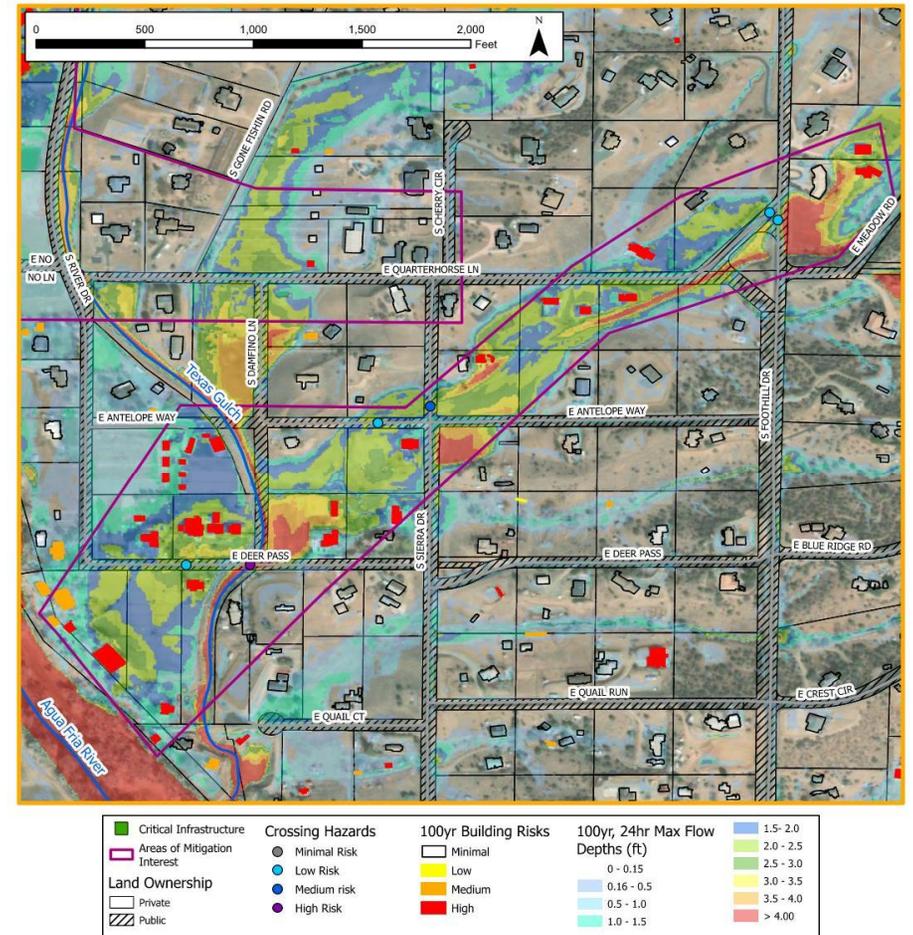
- Improved culverts at the low water crossing east of SR 69 (on private property)
- Maintenance of the wash on both public and private property



Area 06

Potential Solutions:

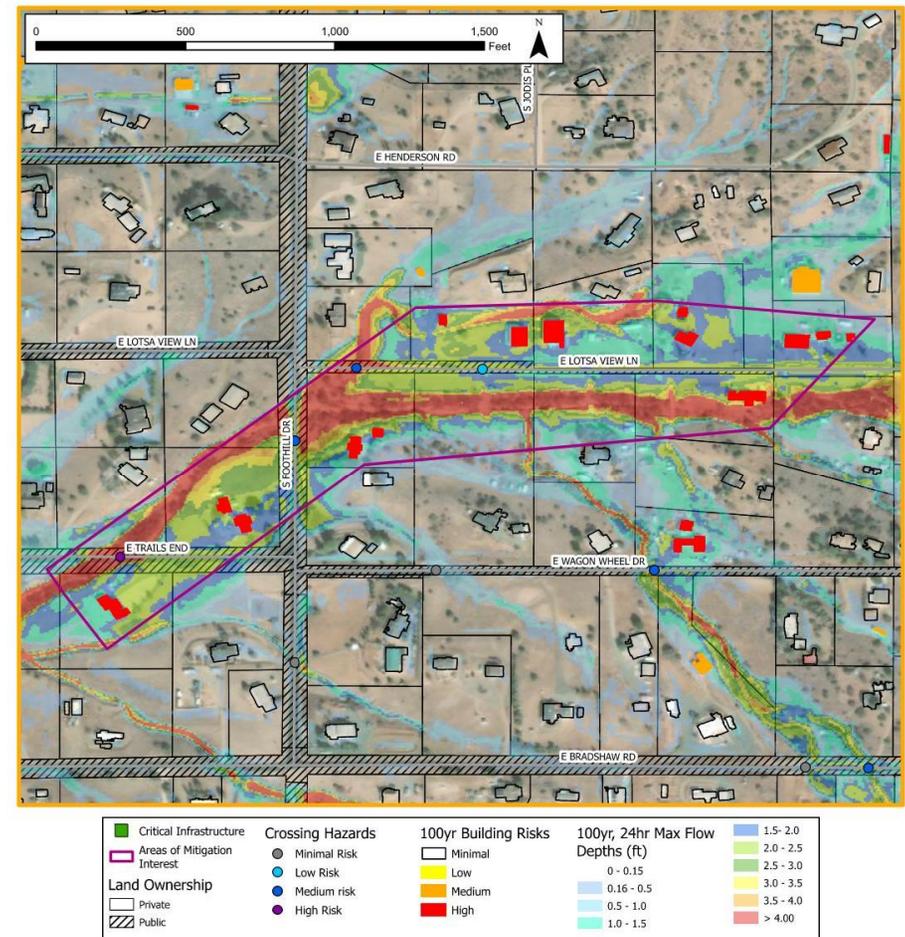
- Maintenance of Texas Gulch
- Improvements to the low water crossing along Deer Pass
- Channelization of the unnamed wash
- Flood Alert Gage and Community Warning System
- Public Education and Outreach
- Roadside swales discharging to Texas Gulch in the right-of-way



Area 07

Potential Solutions:

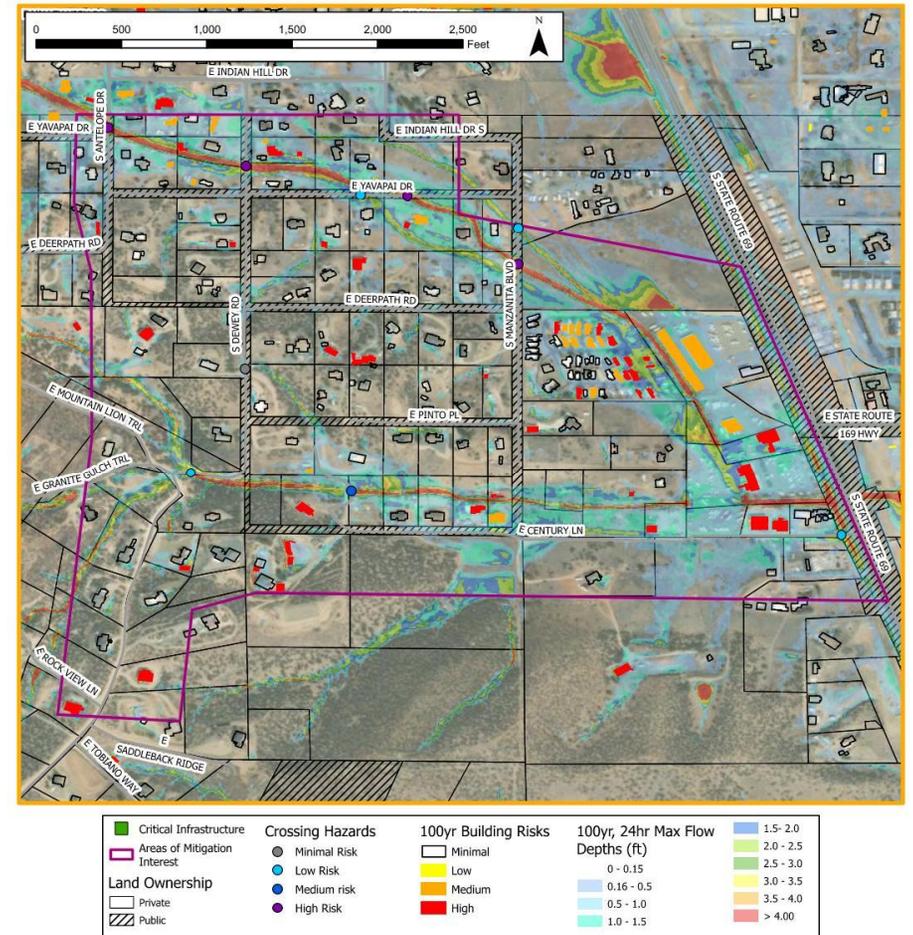
- Maintenance of the existing culverts
- Low water crossing along Trails End
- Culvert improvements at Foothills Drive to reduce upstream ponding
- Public education and outreach



Area 08

Potential Solutions:

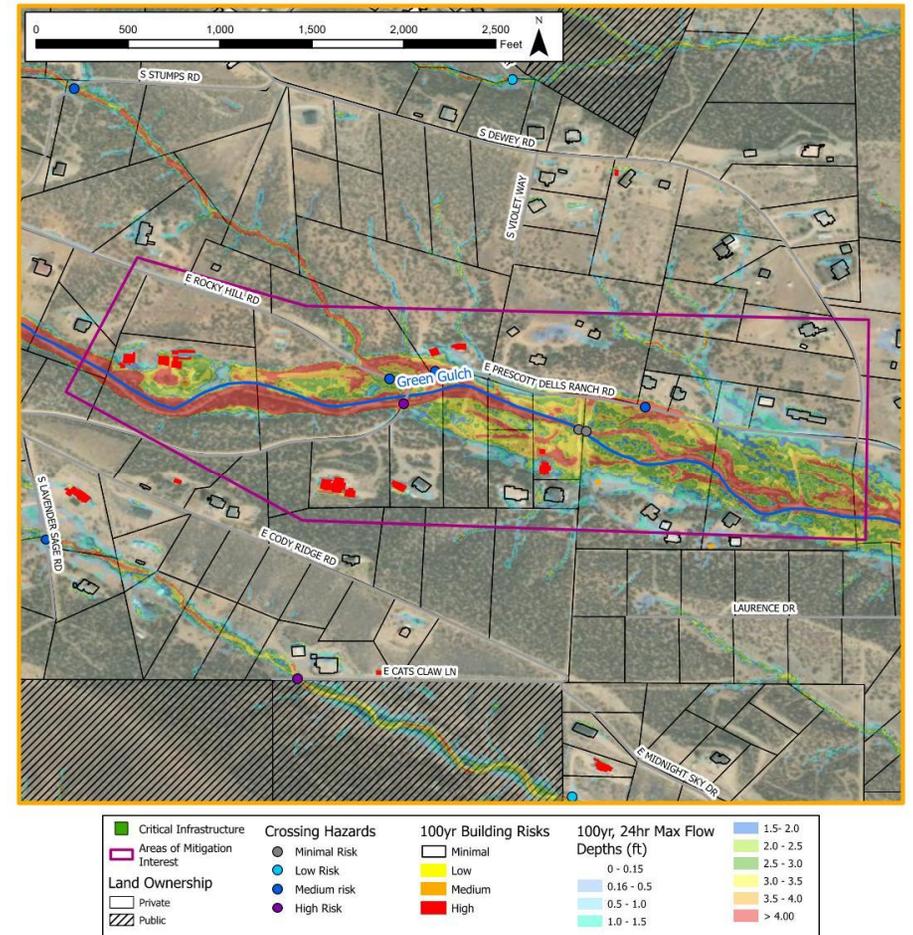
- Maintenance of the unnamed washes
- Adding an additional road connection to SR 69, potentially extending Deerpath Road
- Roadway improvements and culverts at Dewey Road and other locations to improve access
- Flood Alert Gage and Community Warning System
- Public education and outreach
- Improve channel conveyance



Area 09

Potential Solutions:

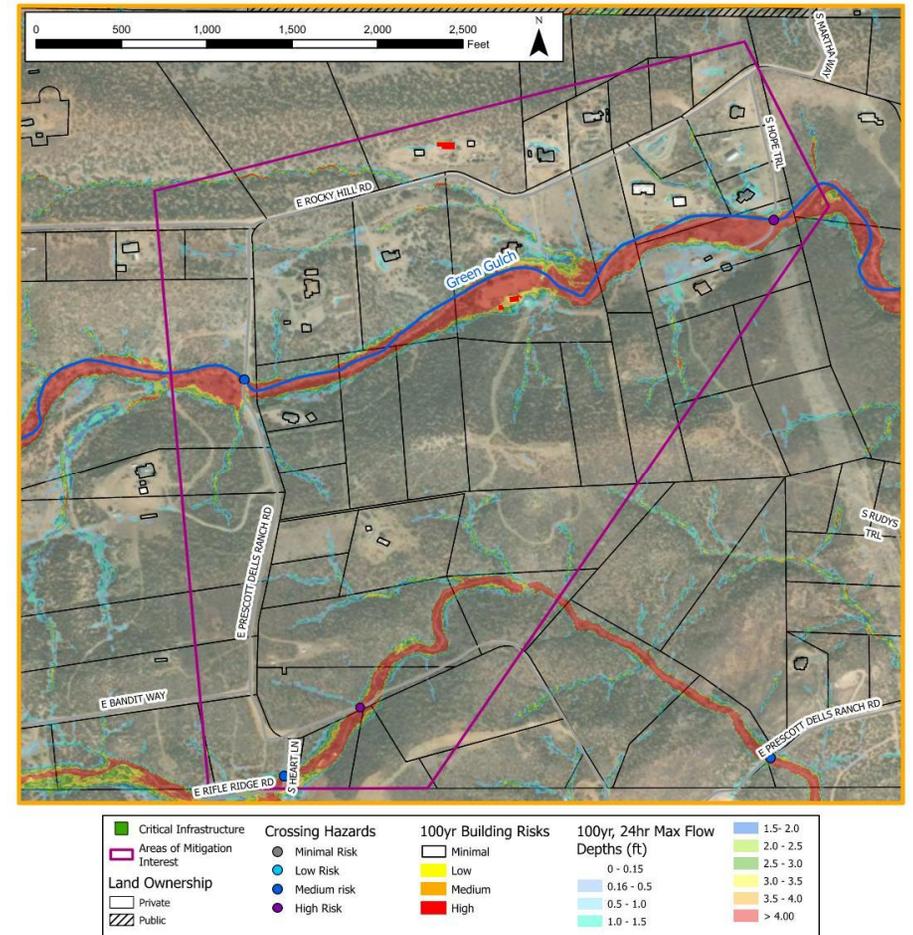
- Evaluation of alternative routes
- Roadway and culvert improvements
- Low water crossing south of the intersection of Prescott Dells Ranch Road and Rocky Hill Road
- Flood Alert Gage and Community Warning System



Area 10

Potential Solutions:

- Maintenance of Green Gulch
- Low water crossing improvements
- Evaluation of alternative routes
- Flood Alert Gage and Community Warning System
- Public education and outreach



Town Input on Areas

- Select three areas for additional analysis



Questions

