



3 Canyons Recharge Project

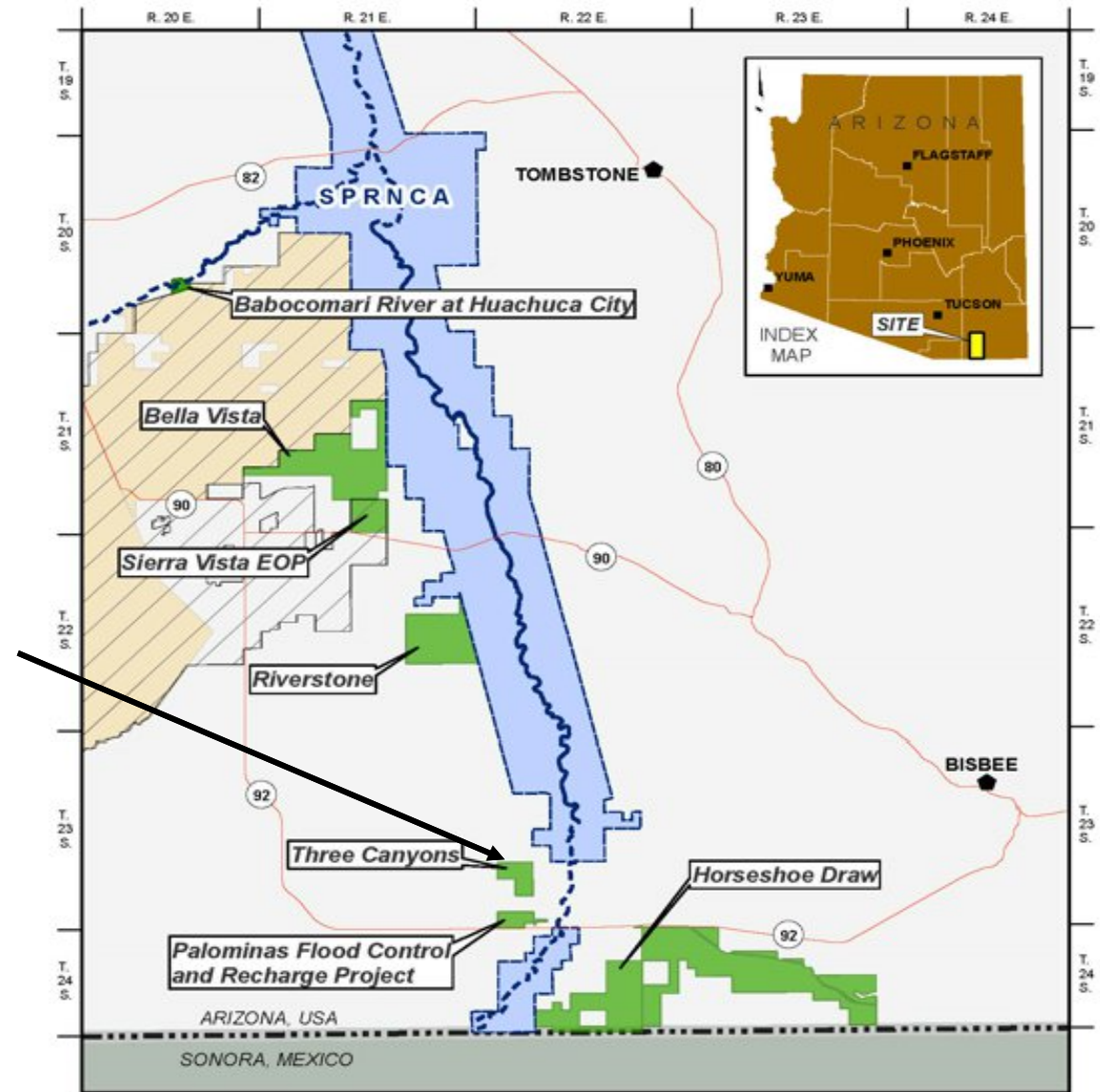
Using Regenerative Agricultural
land management practices to
reduce stormwater runoff by
increasing infiltration with improved
soil ecological health

Engineering & Natural Resources Dept.

ENR

480 Acres
 Three Canyons / Palominas
 Road
 Retired alfalfa farm

Infrastructure and monitoring
 equipment will be funded from
 the remaining Palominas
 Recharge Grant from Walton
 Family Foundation



EXPLANATION

- Recharge Network Site
- Fort Huachuca
- City of Sierra Vista
- Formerly Perennial River (Arizona Game & Fish, 1981)
- Currently Perennial River (Arizona Game & Fish, 1981)



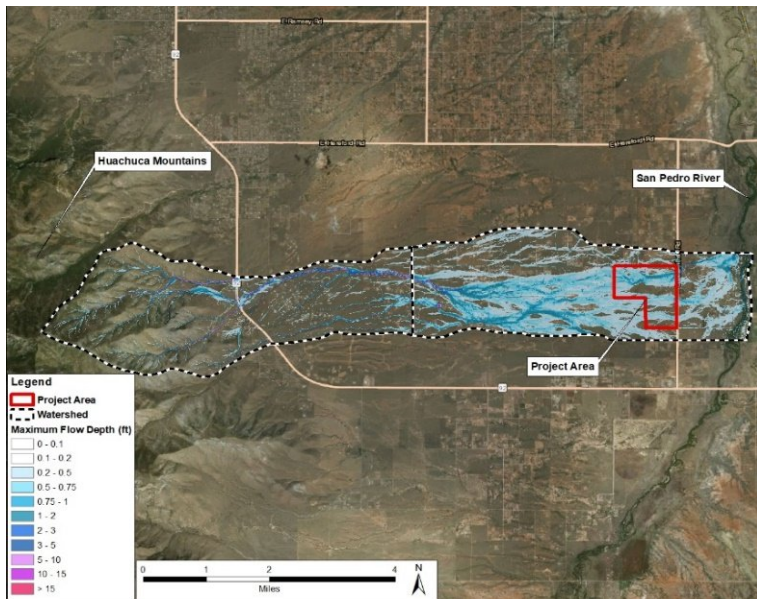
COCHISE CONSERVATION RECHARGE NETWORK, SOUTHERN ARIZONA

CCRN Cochise Conservation & Recharge Network

GIS-Tuc1435_01GPRNCA_SMALL_rev113Feb2018

Phase 1 completed:

- Drainage Modeling
- Ecological Monitoring
- Soil Sampling
- Holistic Management Training
- Recommended Land Restoration Plan



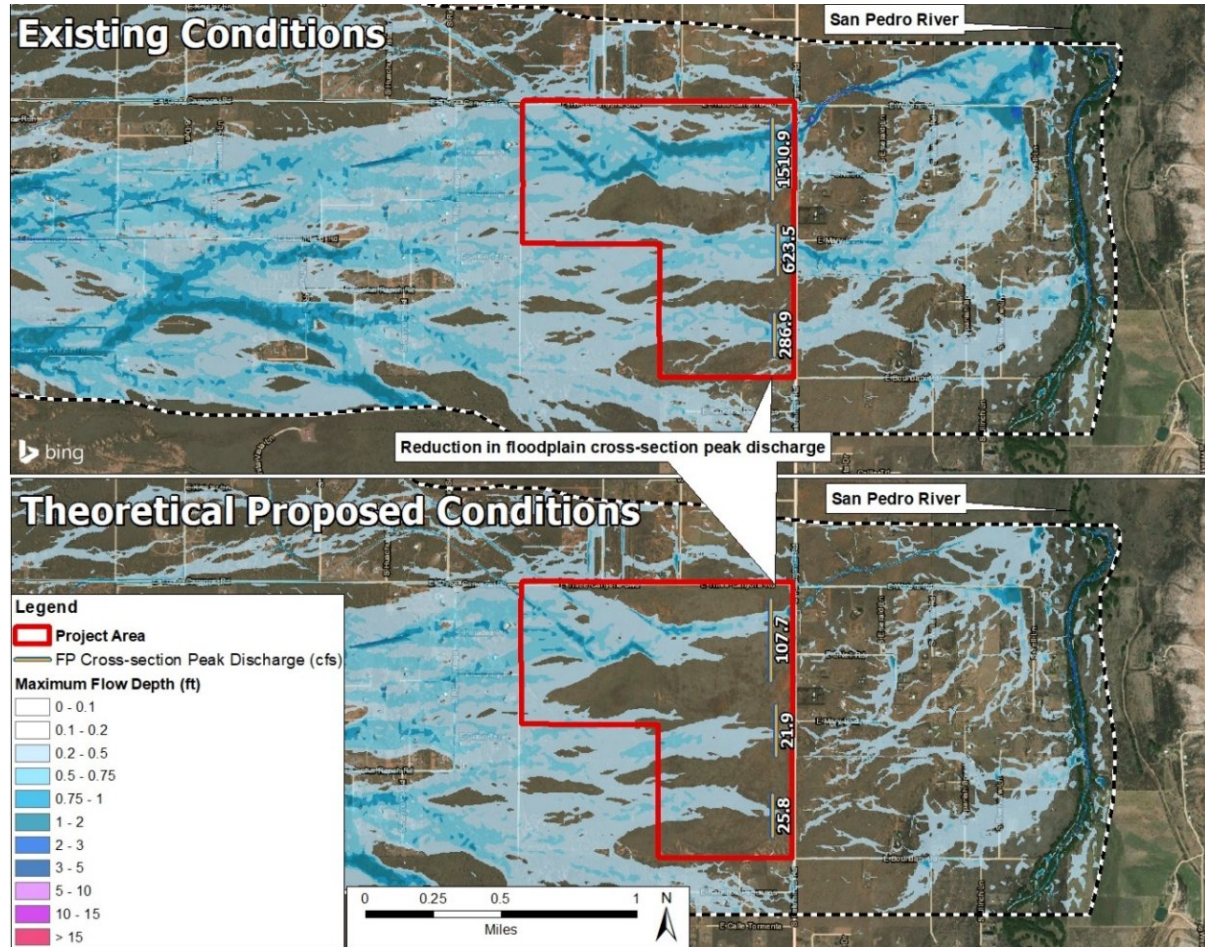
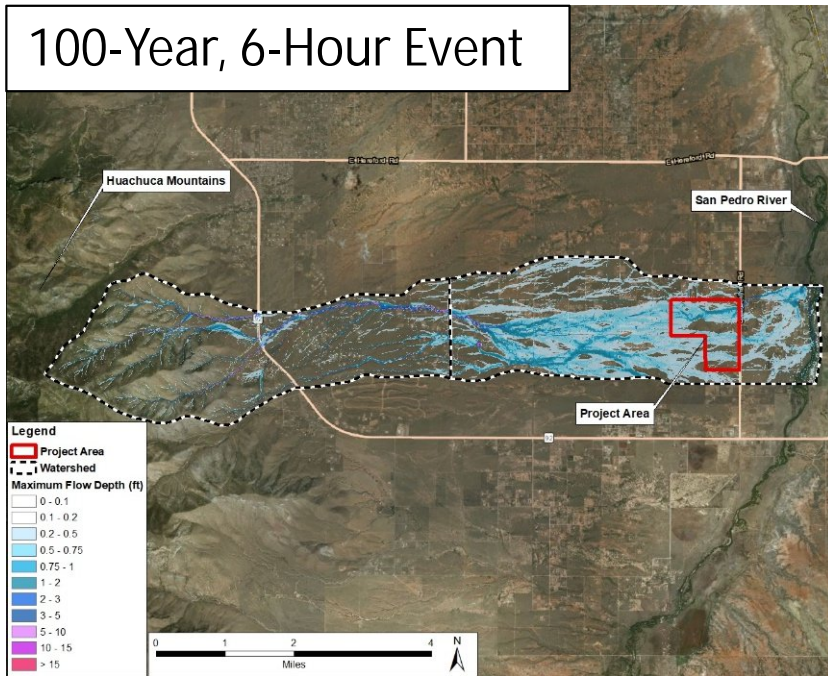
Phase 2 task:

- Baseline runoff, groundwater and e-coli data
- Installation of infrastructure and monitoring equipment
- Implement land treatment restoration
- Vegetation and soil health
- Additional treatments designed and implemented
- Learning laboratory for land management applicable County Wide

Planned Outcomes

Hydraulic Modeling

100-Year, 6-Hour Event



Planned Outcome: Effective Water Cycle, Increase Infiltration

Soil Organic Matter 1.7%
Next Day - Practically no infiltration

Soil Organic Matter 5%
Next Day - Practically total infiltration



- Adjacent farmland showing effects of stormwater from different land management practices