



Wildlife Conservation Board
August 25, 2022, 10:00 am Board Meeting
First Floor Auditorium, CNRA Headquarters Building







Wildlife Conservation Board Proposed Projects August 25, 2022 Fee Title (1) Conservation Easement (3) Restoration/Enhancement (11) Conservation Planning/Study (3) Public Access (1) **Total Projects: 19**

Wildlife Conservation Board Meeting August 25, 2022 Project Map





Consent Items 4-14



Item 4. Recovery of Funds

Fund Name	Amount
Habitat Conservation Fund	\$10,000.03
California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Fund	\$1,349.61
Water Security, Clean Drinking Water, Coastal and Beach Protection Fund of 2002	\$0.00
Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Fund of 2006	\$58,986.80
Water Quality, Supply, and Infrastructure Improvement Fund of 2014	\$0.49
The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018	\$30,430.50
Total Recoveries for All Funds	\$100,767.43

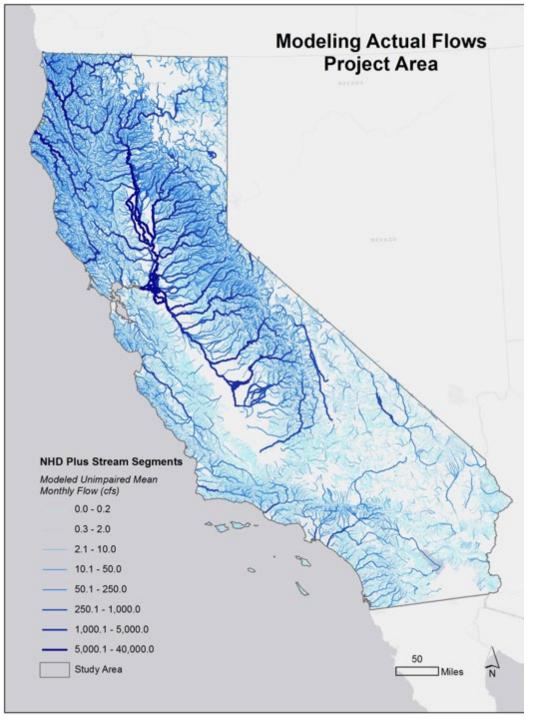




Consent Items 4-14 Motion

Modeling Actual Flows and Assessing Stream Flow Alteration in Ungaged Streams Across California Statewide





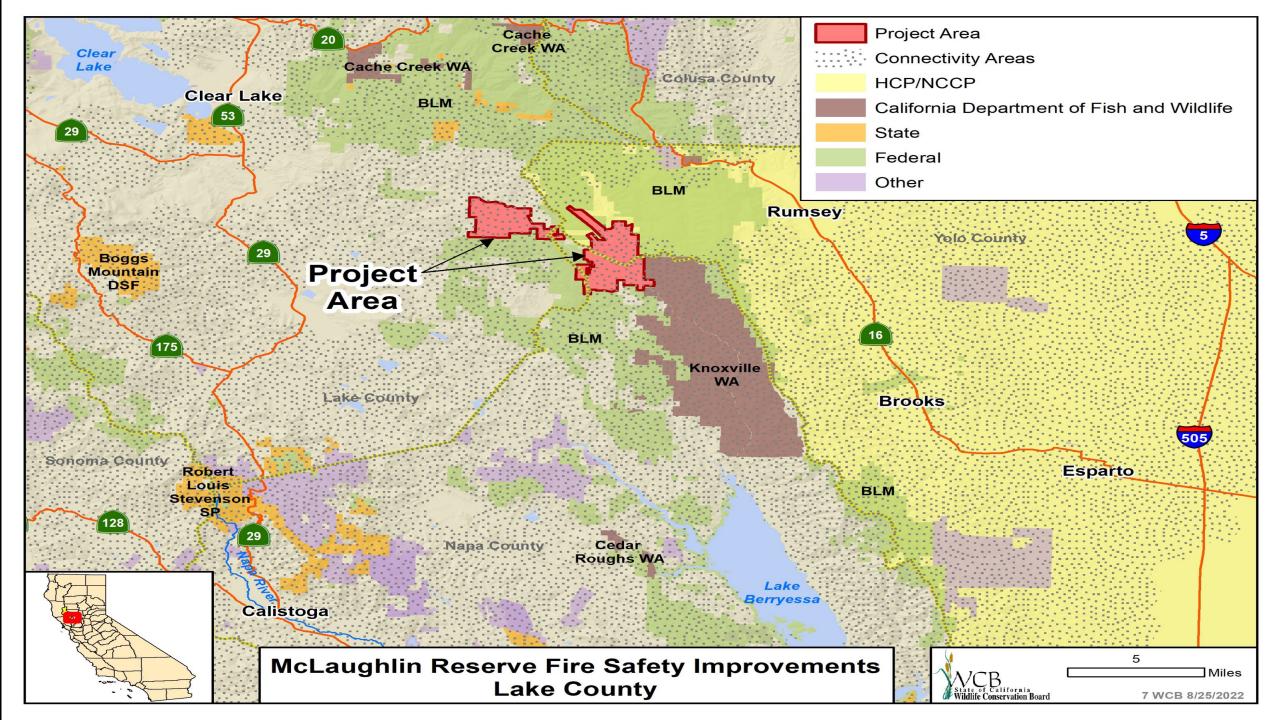
6. Modeling Actual Flows and Assessing Stream Flow Alteration in Ungaged Streams Across California

Slide 1

The study area of this project will include ungauged streams statewide.











7. McLaughlin Reserve Fire Safety Improvements Left: McLaughlin Reserve main facilities

Right: Reserve classroom, with defunct sprinklers and

fire alarm





7. McLaughlin Reserve Fire Safety Improvements Slide 2

Left: Fire hydrants will be installed along this woodland strip

Right: Exterior hydrant site plan





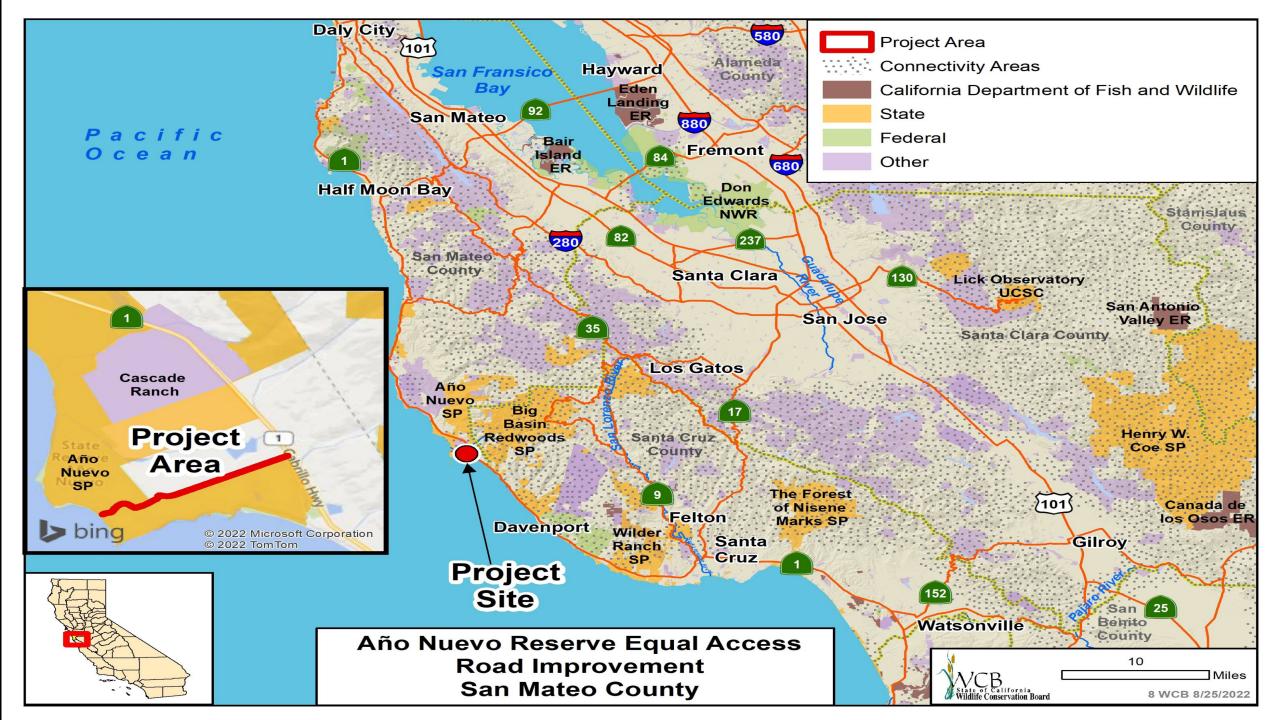
7. McLaughlin Reserve Fire Safety Improvements Left: A water line will be extended to reach the Reserve Campground, and hydrants installed

Right: A hydrant will be installed at the residence for the Reserve Steward

7. McLaughlin Reserve Fire Safety Improvements Slide 4

Augmented Budget
Adds \$28,500 in WCB Funding & \$9,424 in Cost
Share

Project Task	WCB	Non-WCB Funds	Total Cost
Headquarters Fire Sprinkler/Alarm System	\$313,500		\$313,500
Water Storage/Delivery/Hydrants		\$89,162	\$89,162
Equipment		\$15,394	\$15,394
Total	\$313,500	\$104,556	\$418,056







8. Año Nuevo Reserve Equal Access Road Improvement Slide 1

Equal Access Road, poor drainage and overgrown vegetation





8. Año Nuevo Reserve Equal Access Road Improvement Slide 2

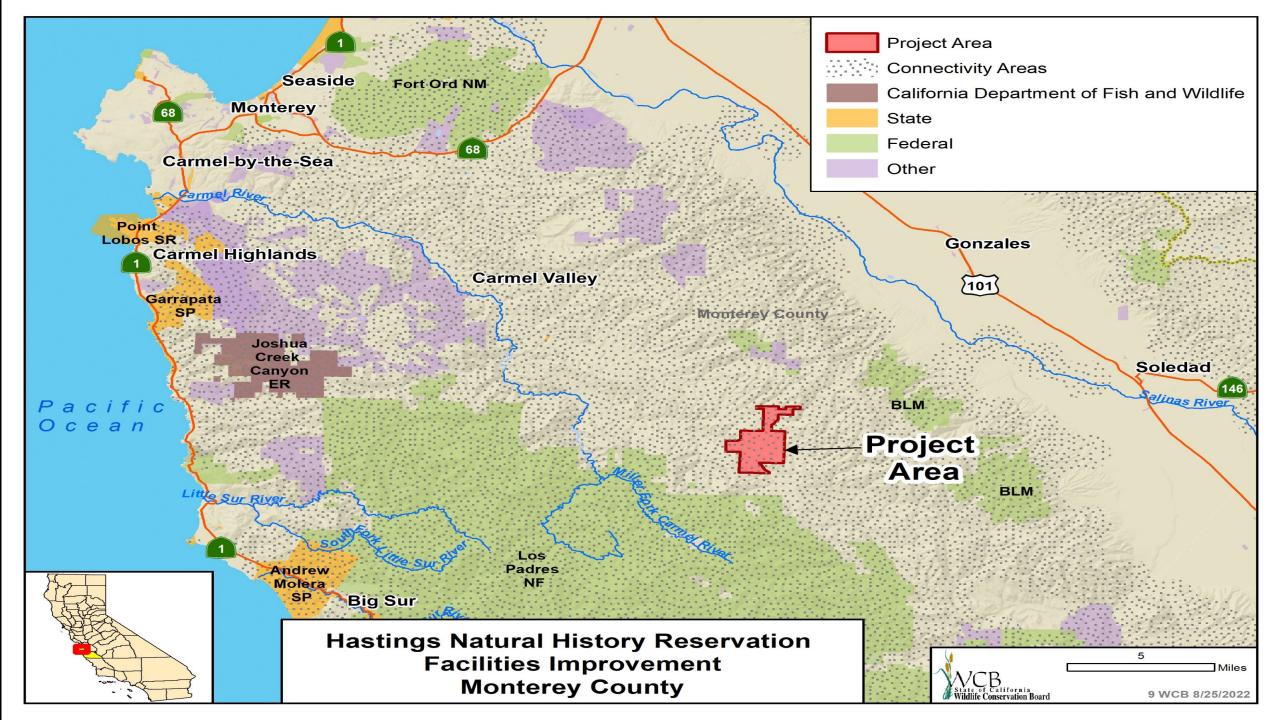
Equal Access Road rock drainage lens with culvert to be constructed



8. Año Nuevo Reserve Equal Access Road Improvement Slide 3



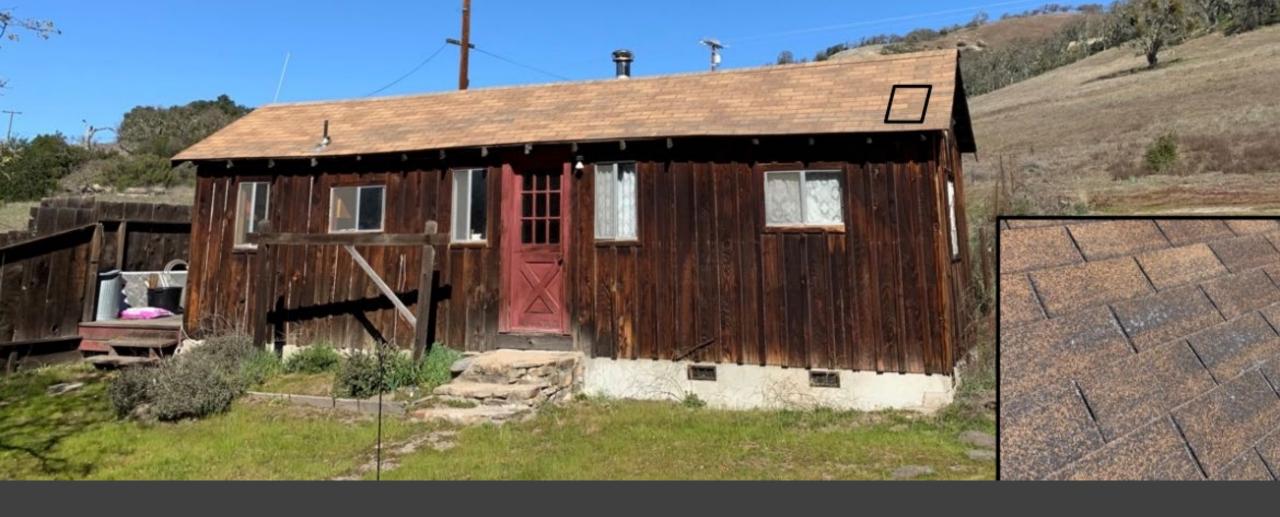
Culvert extended to support roadway and replace rusted culvert.



9. Hastings Natural History Reservation Facilities Improvement

Hastings Cabin, roof to be replaced





9. Hastings Natural History Reservation Facilities Improvement
Slide 2

Fanny's Cabin, roof to be replaced and structure remodeled.



9. Hastings Natural History Reservation Facilities Improvement

Slide 3

Robertson House kitchen to be remodeled.

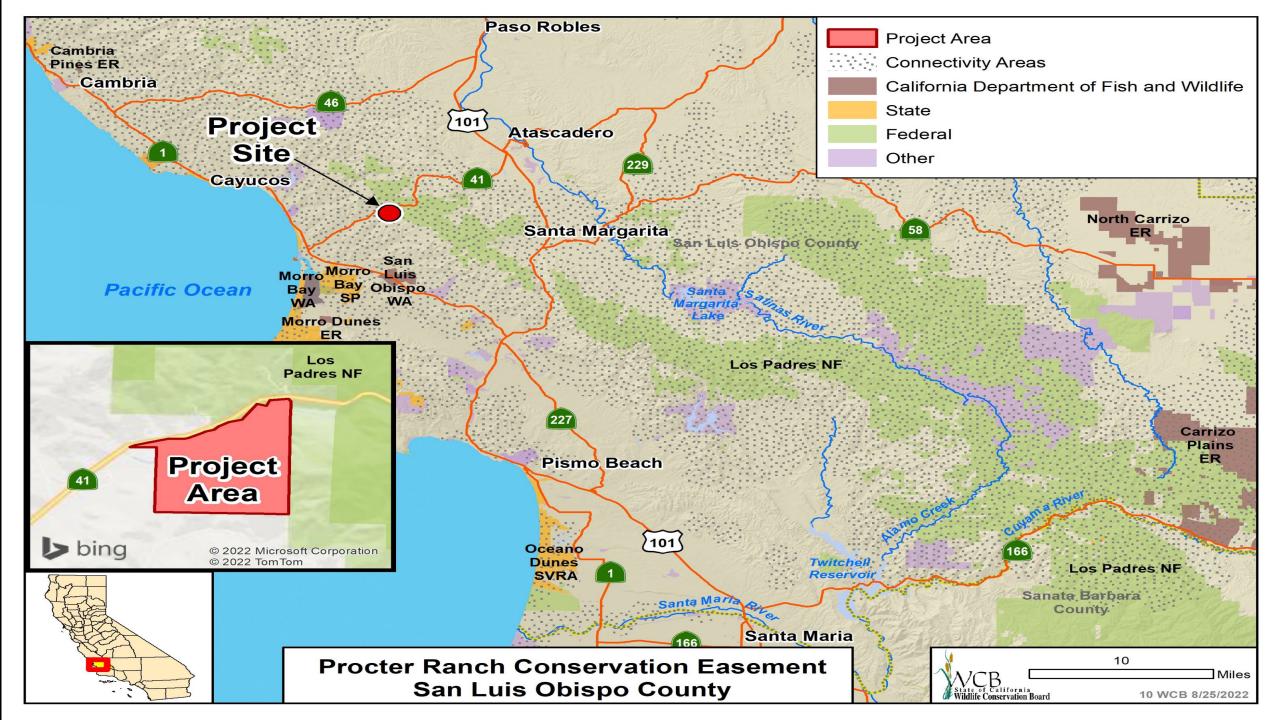


9. Hastings Natural History Reservation Facilities Improvement

Slide 4

Robertson House, energy efficient windows will be installed.









10. ProcterRanchConservationEasement

Slide 3

Procter Ranch is home to blacktail deer.



10. ProcterRanchConservationEasement

Slide 4

Procter Ranch caretaker's home and avocado orchard.



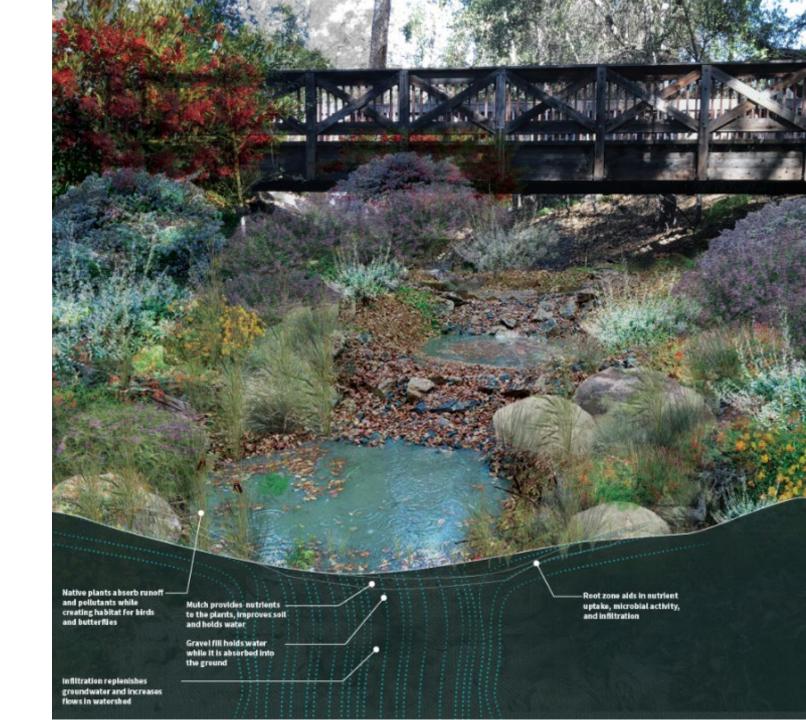






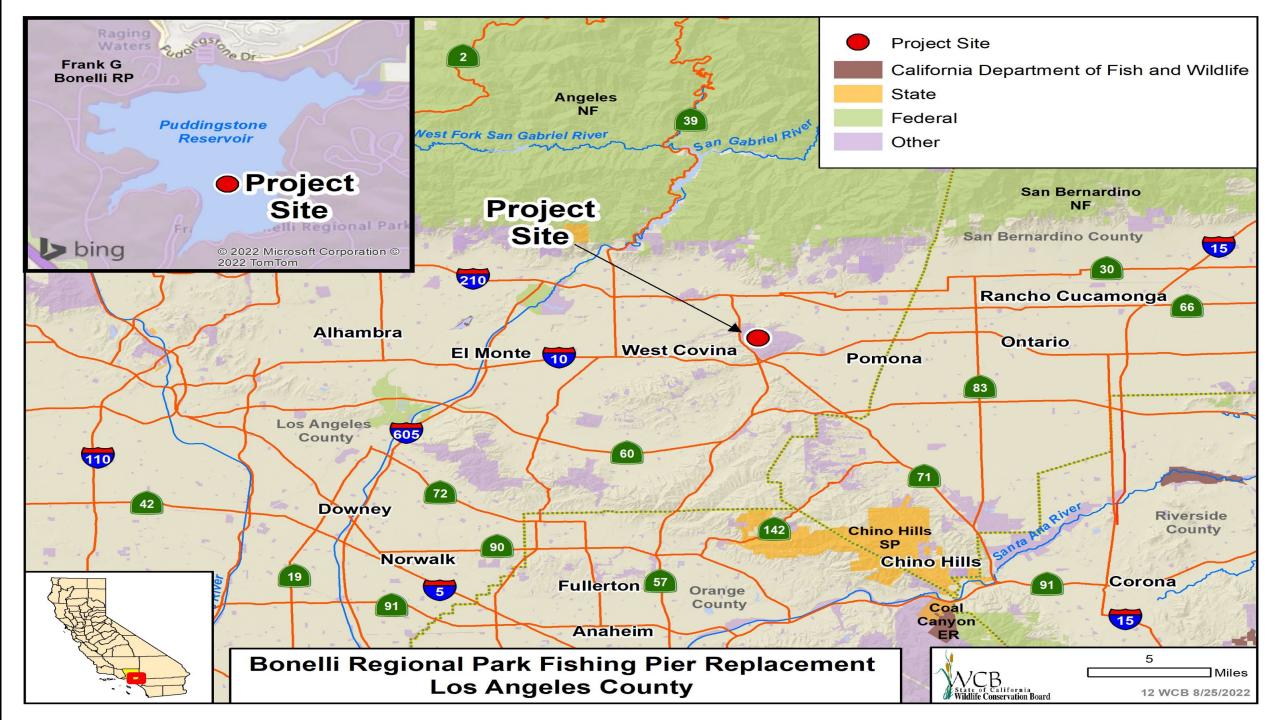


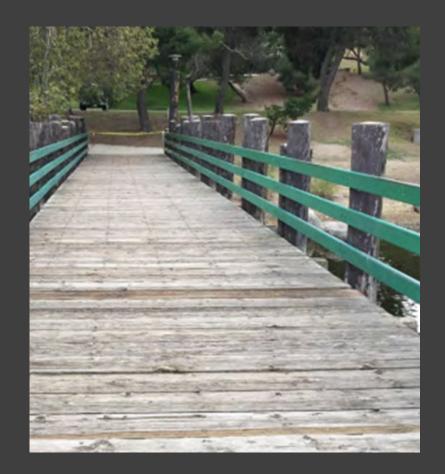
- 11. Ventura Watershed Instream Flow Enhancement and Water Resiliency Regional Framework Planning Project, Phase 2 Slide 3
- Planning and designs will identify ways to enhance stream flow including check dams, mulching practices, and development of BMPs.

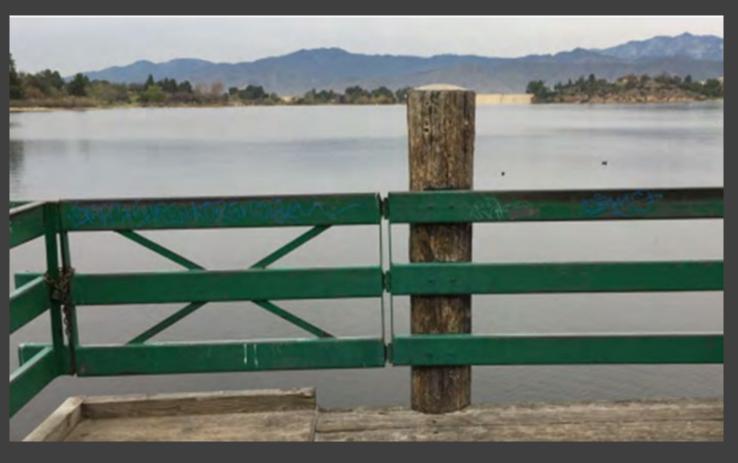


- 11. Ventura Watershed
 Instream Flow Enhancement
 and Water Resiliency
 Regional Framework
 Planning Project, Phase 2
 Slide 4
- Senior Canyon where stream flow enhancement planning will include rainwater harvesting, orchard irrigation efficiencies, landscape irrigation efficiencies, climate appropriate plantings, and greywater reuse.





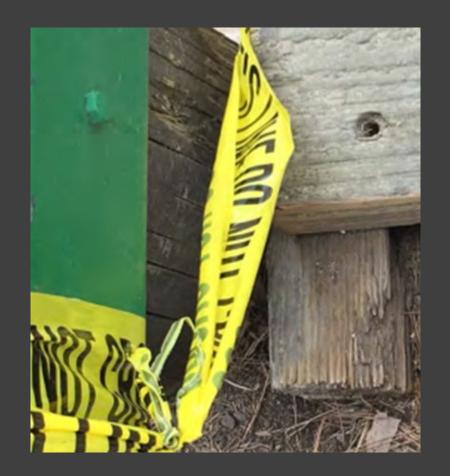




12. Bonelli Regional Park Fishing Pier Replacement

Slide 1

The existing 47-year of wood pier were close in 202 due to damage from weather, fire, and aging and view of Puddingstone Reservoir from existing wooden fishing pier.

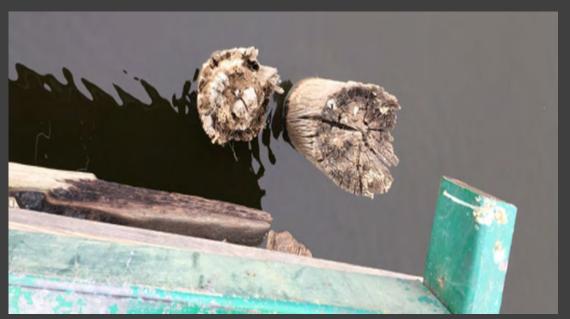




12. Bonelli Regional Park Fishing Pier Replacement

Slide 2

The existing pier has moved exposing the wooden joints holding attaching the pier to the concrete footing and exposed wooden joints on existing pier.



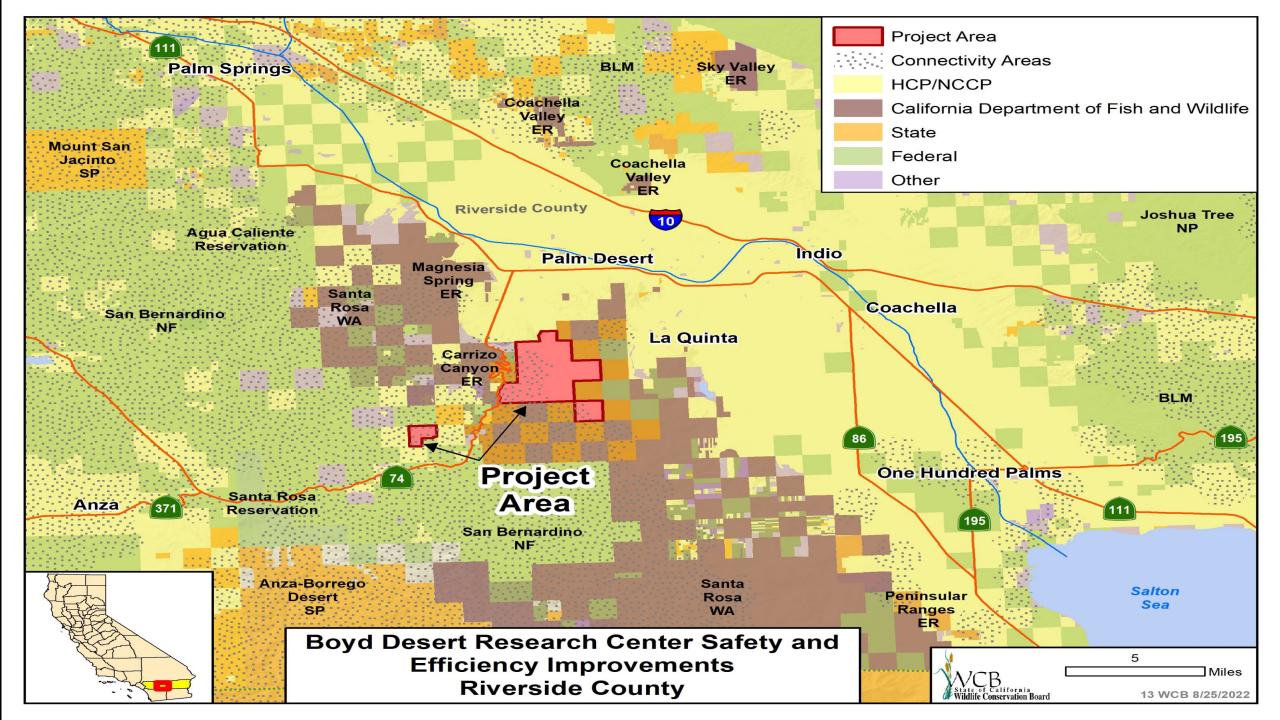




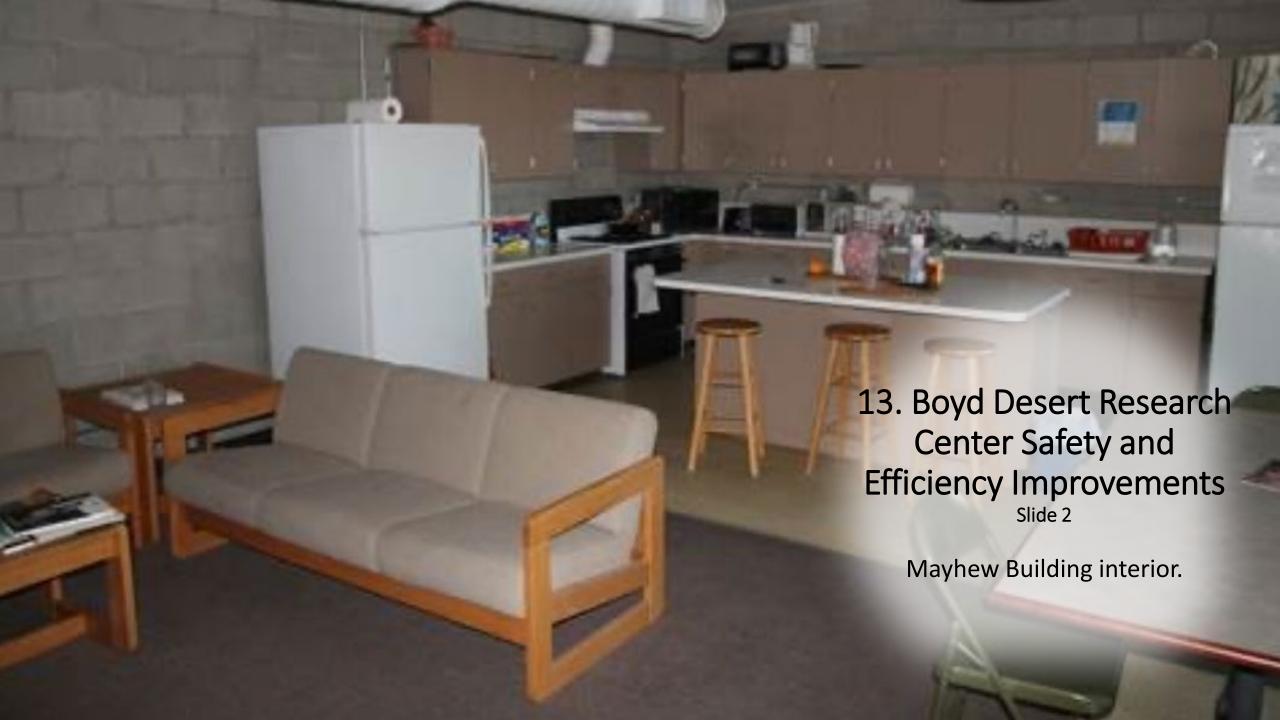


12. Bonelli Regional Park Fishing Pier Replacement Slide 3

Supporting piles have moved away from the fishing pier and are exposed and severe damage from water, fire, and aging on the existing wooden pier piles.

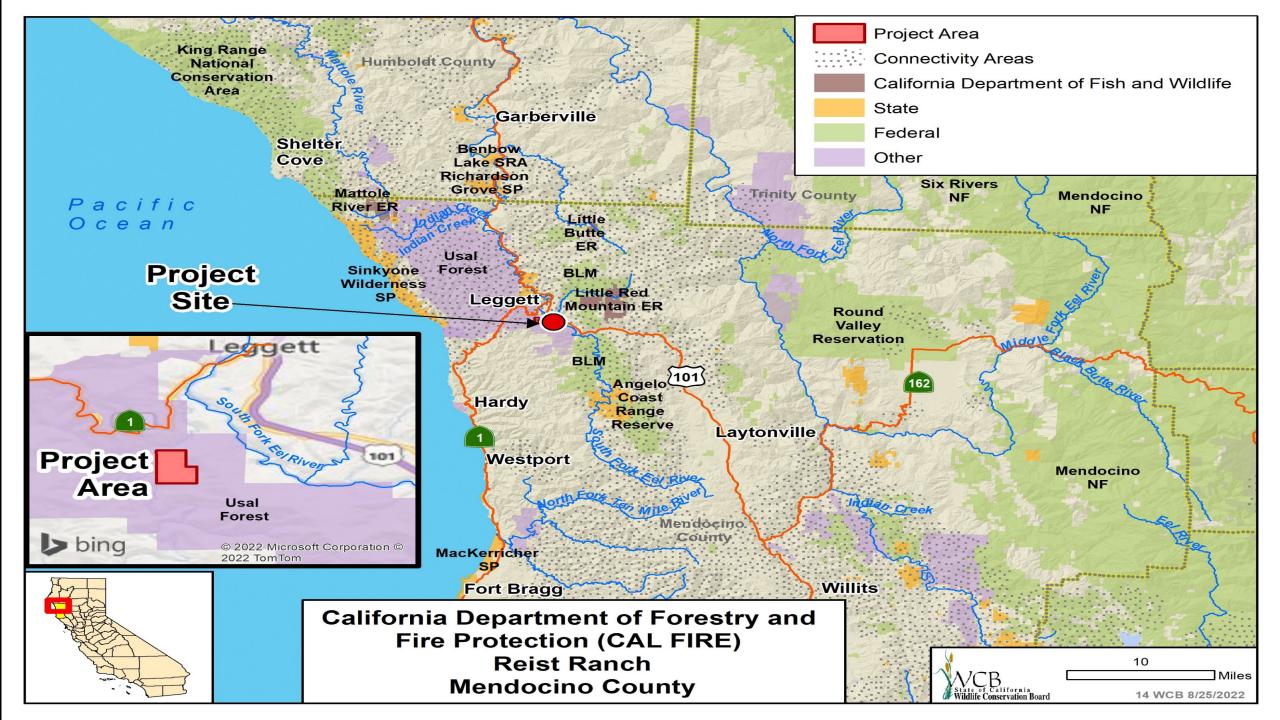


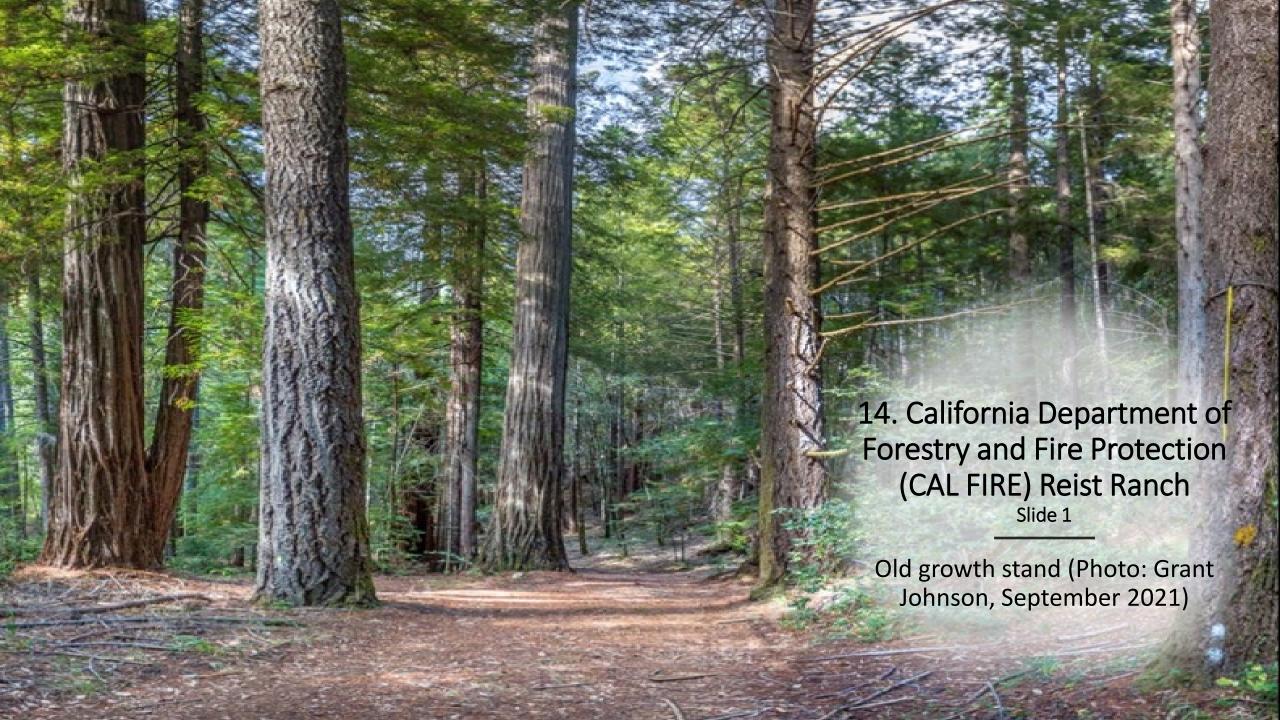












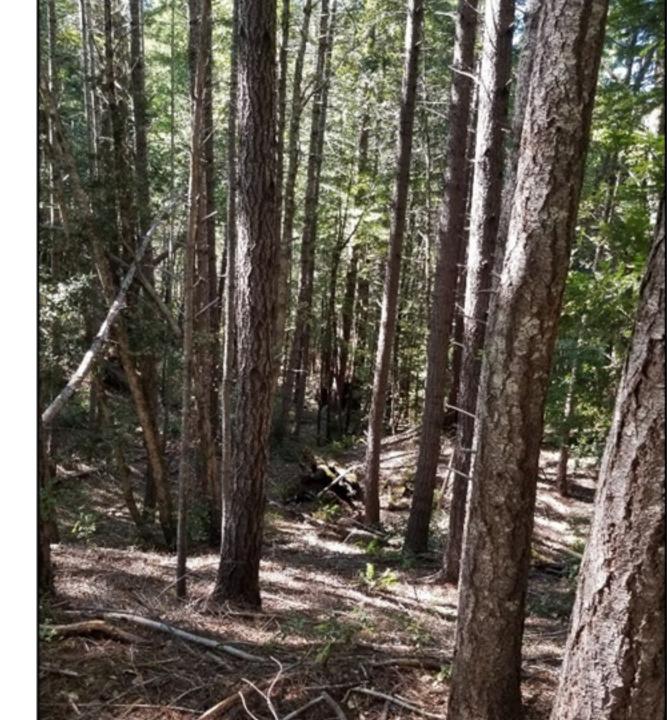




14. California Department of Forestry and Fire Protection (CAL FIRE) Reist Ranch

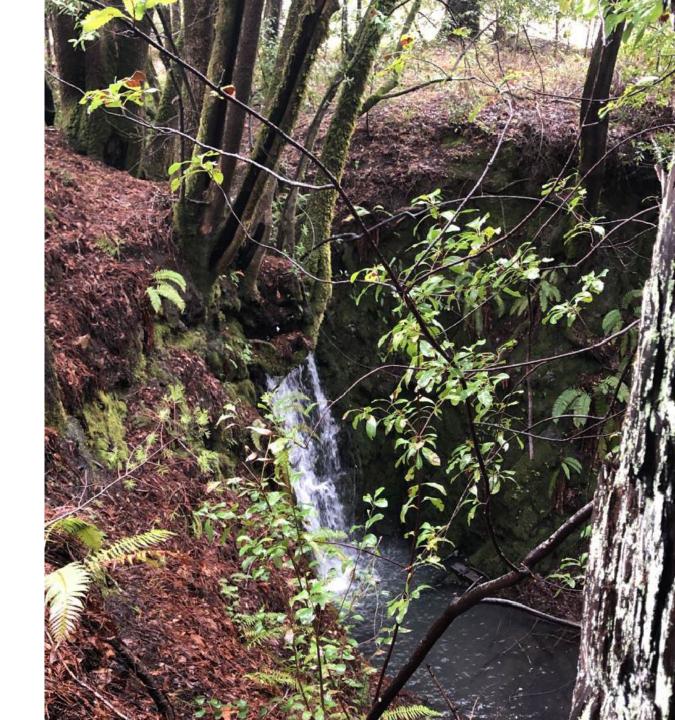
Slide 4

Working forest (Douglas-fir/tanoak) (Photo: Redwood Forest Foundation, Inc)



14. California Department of Forestry and Fire Protection (CAL FIRE) Reist Ranch

Waterfall (Photo: Redwood Forest Foundation, Inc)



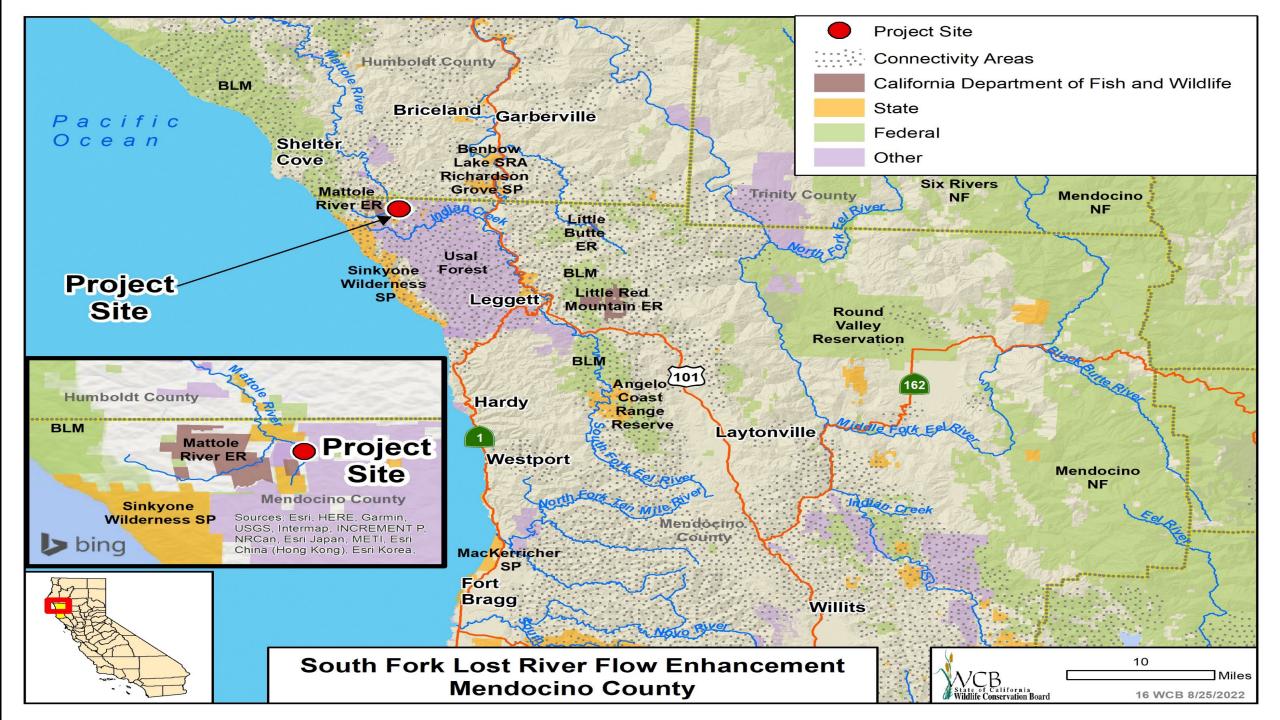




Proposed Calendar Items 15-25

15. Lake Earl Wildlife Area Coastal Dune and Estuary Restoration, Phase 2

Withdrawn from consideration at this time.



16. South Fork Lost River Flow Enhancement

Slide 1

Summer conditions in mainstem Mattole River, August 2021.







16. South Fork Lost River Flow Enhancement

Slide 2

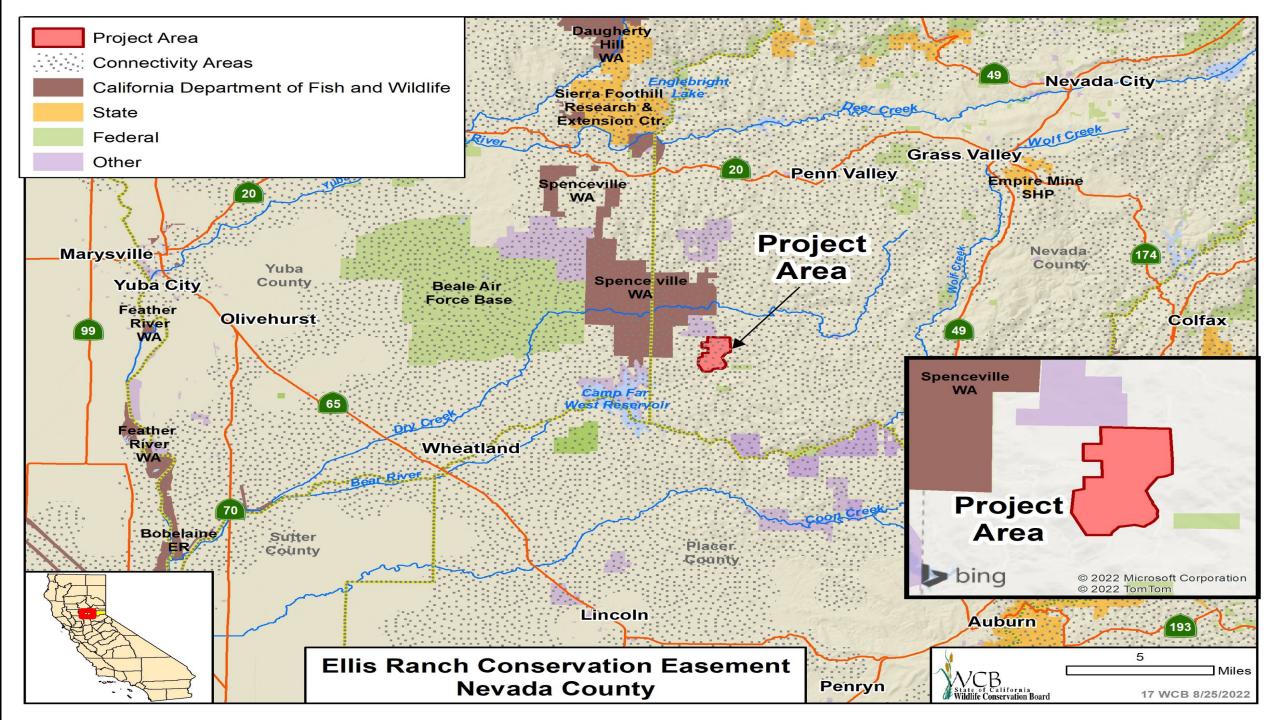
Proposed sites the wetlands (left) and terrace pond (right), Lost River

16. South Fork Lost River Flow Enhancement

Slide 3

Example of a completed terrace pond re-vegetated with native grass and sedges, Baker Creek.









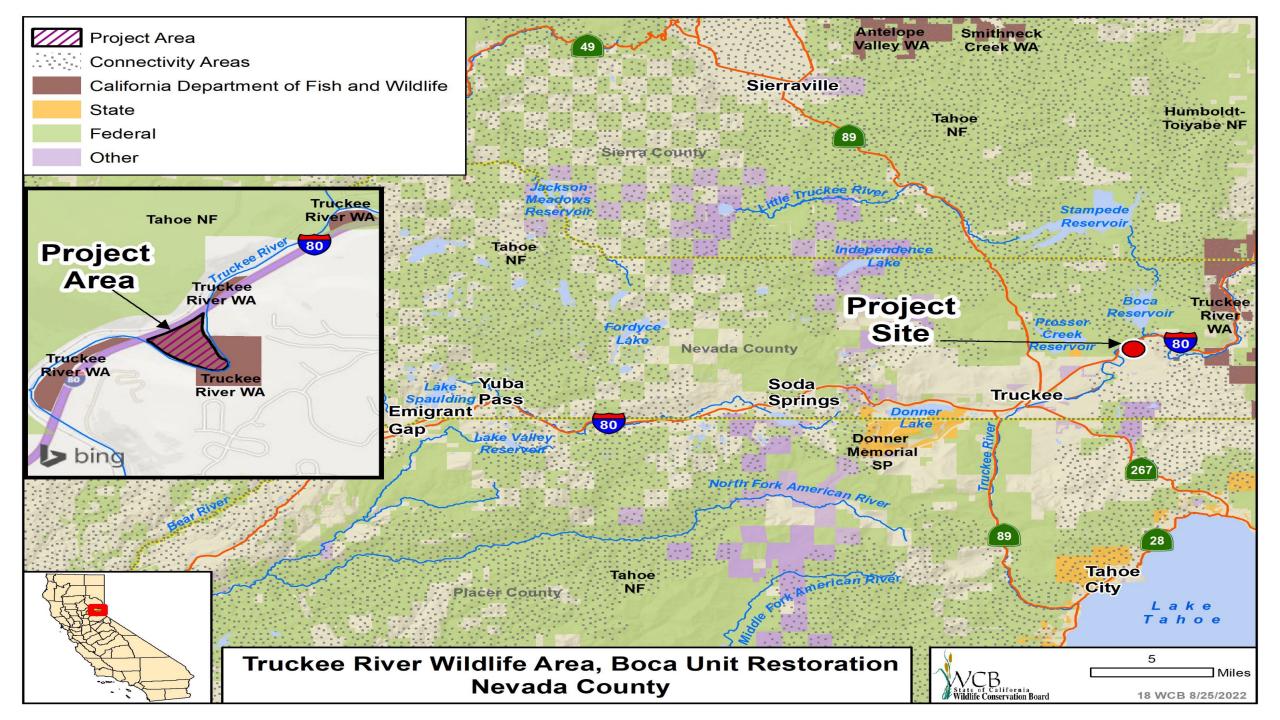












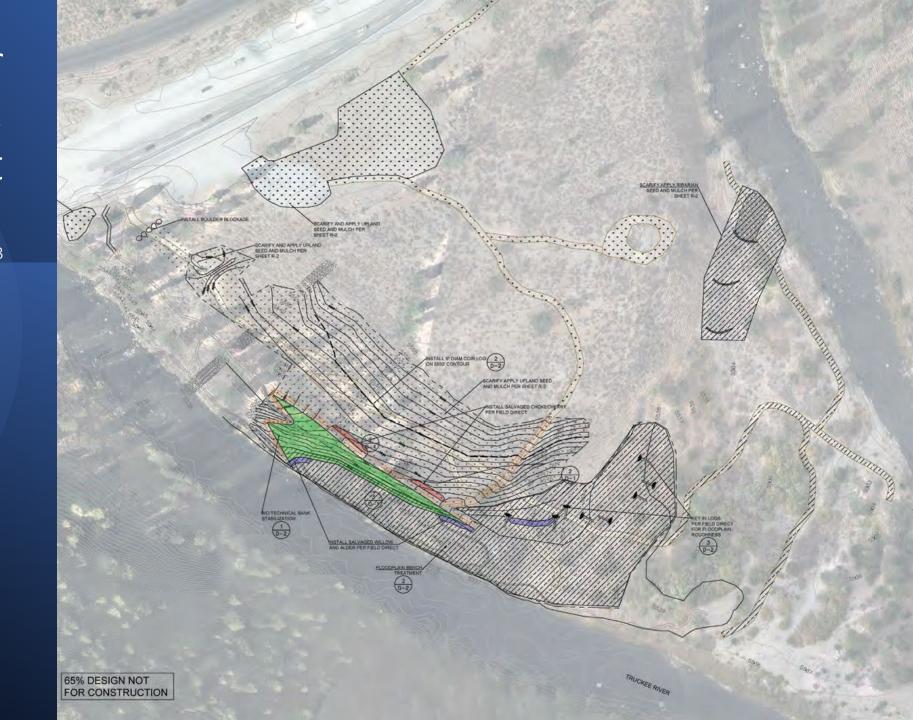




18. Truckee River Wildlife Area,
Boca Unit
Restoration

Design drawing.

Image credit: Wildscape Engineering



18. Truckee River Wildlife Area Boca Unit Restoration

Slide 4

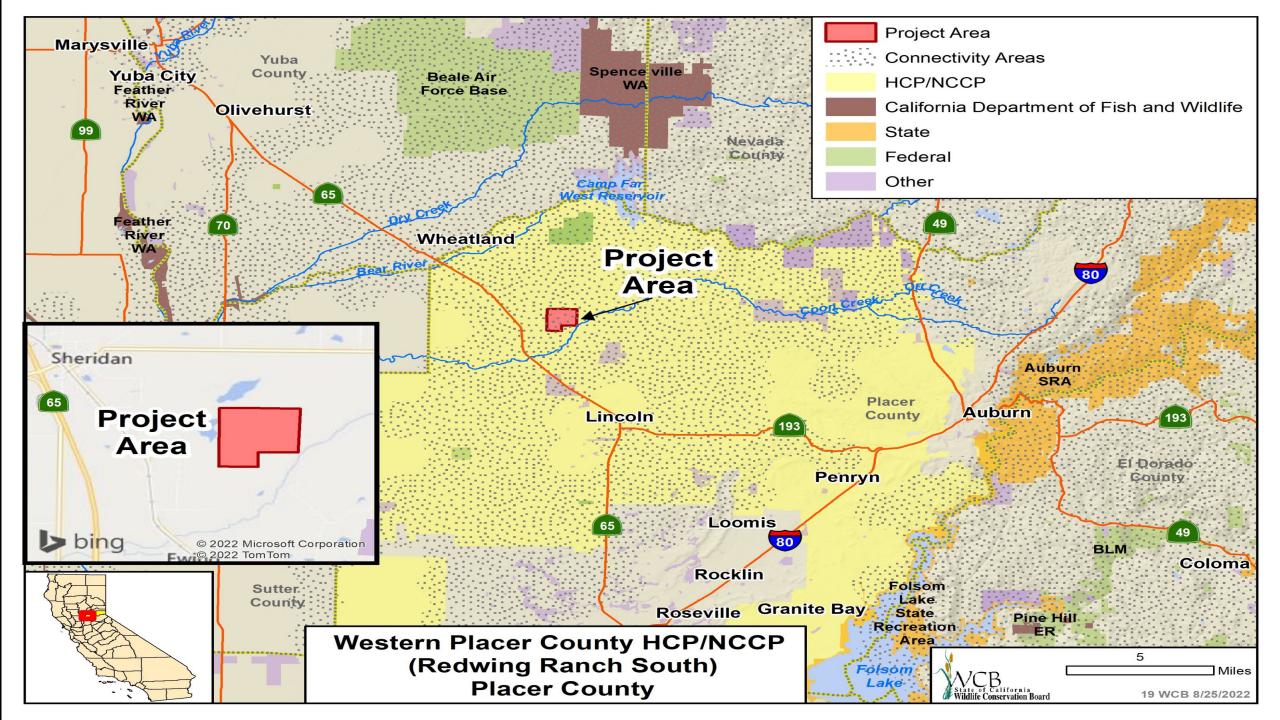
Railroad spur to be graded down to

flood terrace.

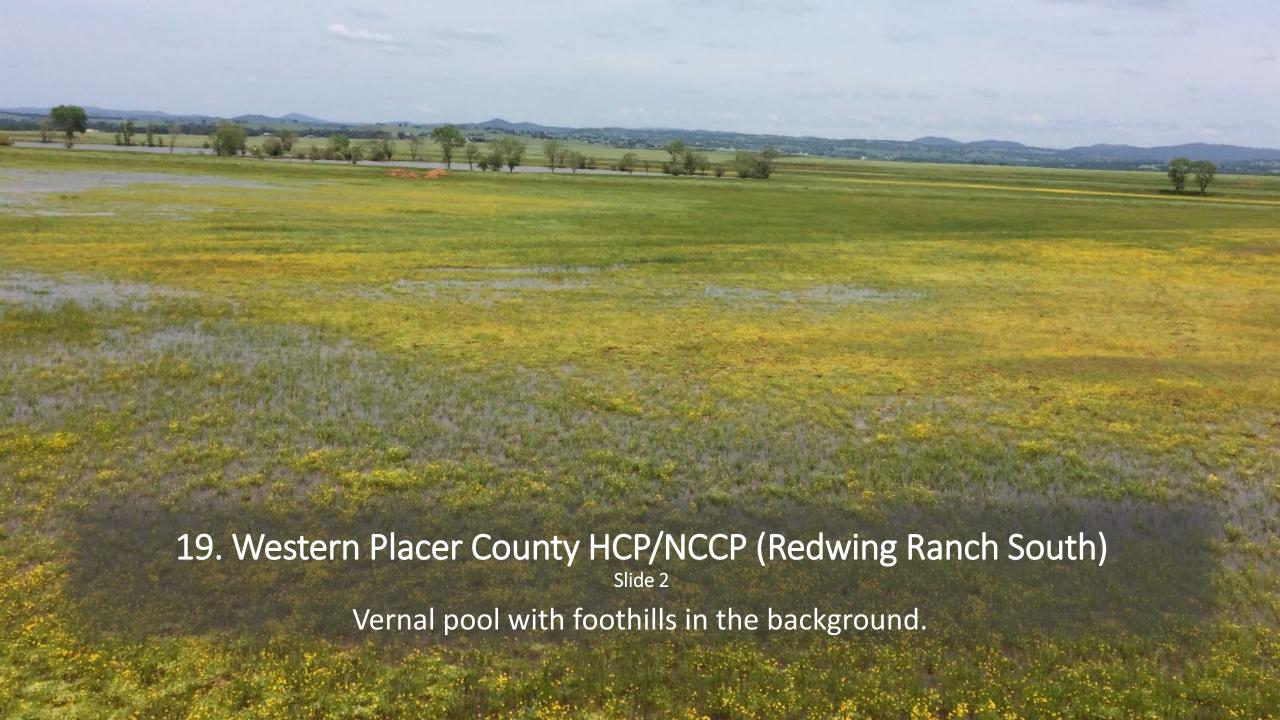












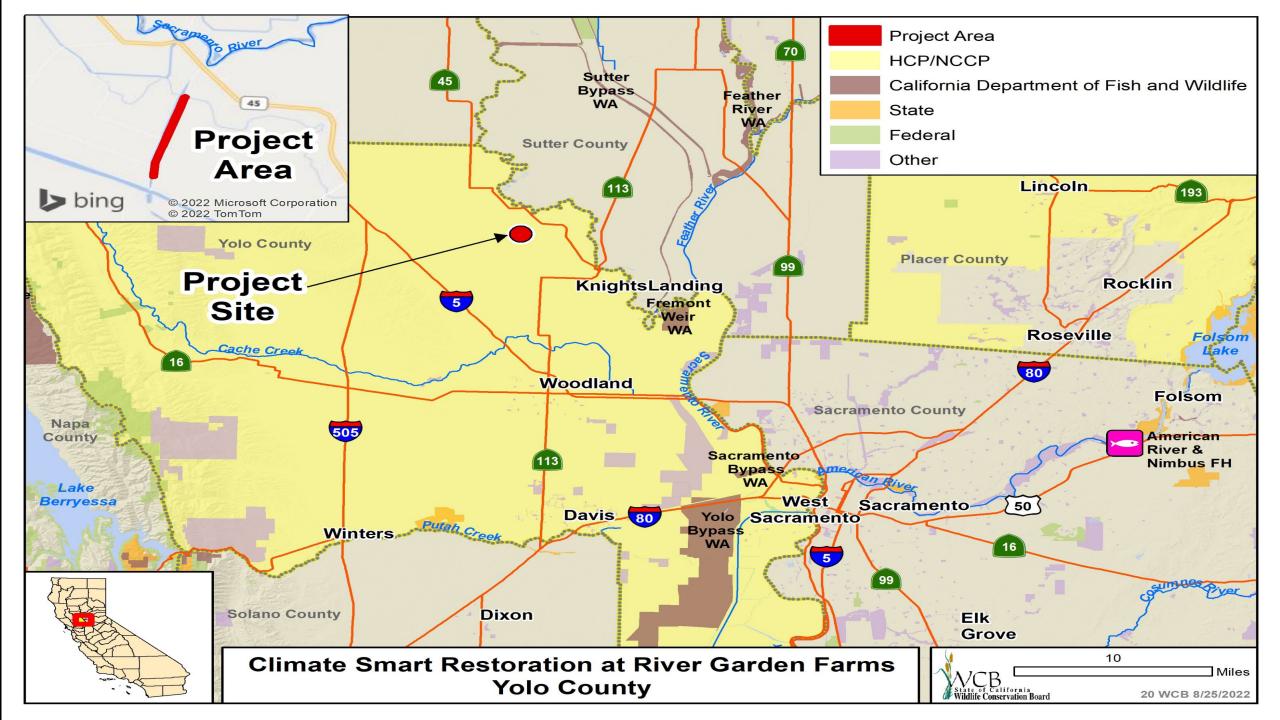




19. Western Placer County HCP/NCCP (Redwing Ranch South) Slide 4

Tricolored blackbird



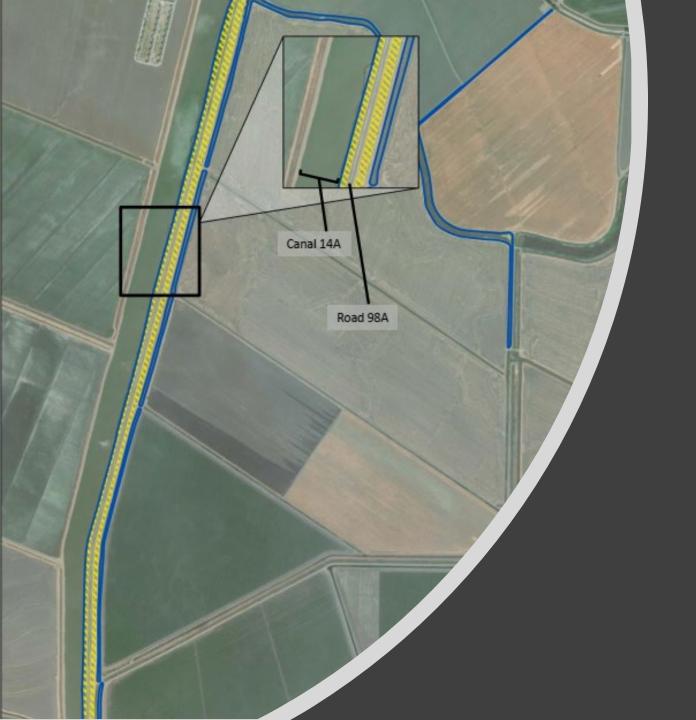


20. Climate Smart Restoration at River Garden Farms

Slide 1



Photos: River Garden Farms and Yolo Audubon



20. Climate Smart Restoration at River Garden Farms

Aerial view of project area.

Project site highlighted in

Slide 2

yellow.

Image: RRG Garden Properties









20. Climate Smart Restoration at River Garden Farms Slide 6

 Oak trees along the north end of the project site.



20. Climate Smart Restoration at River Garden Farms Slide 7

Community participation

Photo Credit: Saxon Holt





20. Climate Smart Restoration at River Garden Farms Education/Volunteer Opportunities:

Student and Landowner Education and Watershed Stewardship (SLEWS) program.

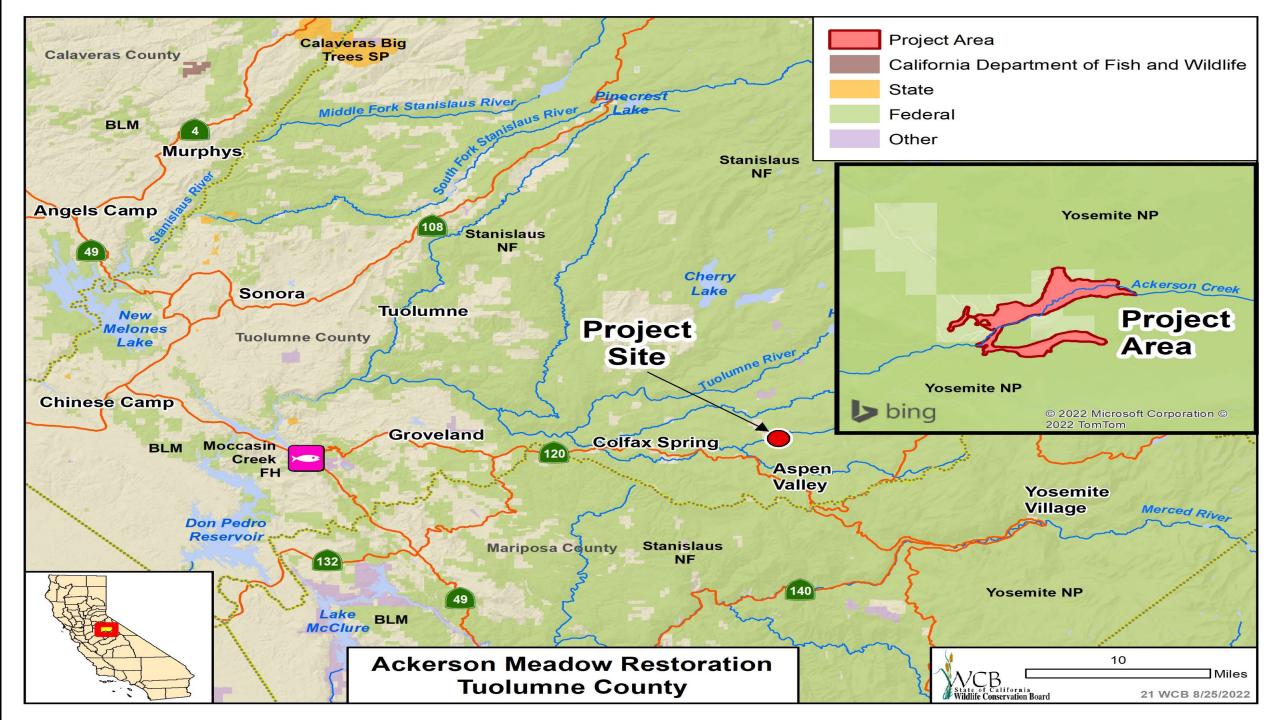
Photo Credit: Audubon California

20. Climate Smart Restoration at River Garden Farms

Slide 9

- Previous hedgerow plantings, to be augmented through the project.
- Photo Credit: Saxon Holt









21. Ackerson Meadow Restoration

Slide 2

Channel cut bank near confluence between North and South Ackerson.



21. Ackerson Meadow Restoration

Slide 3

South Ackerson – example of target condition.







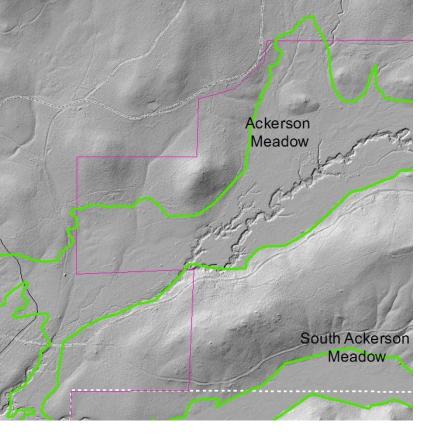
21. Ackerson Meadow Restoration

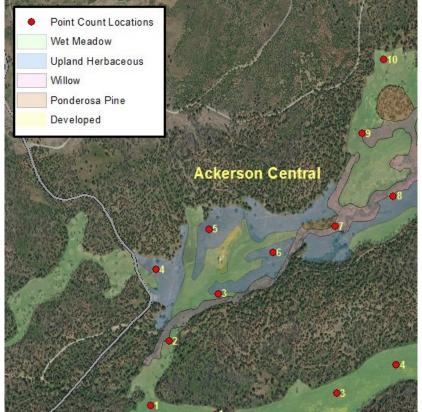
Incised channel passing through Ackerson North (above). Beaver dam analog (left).

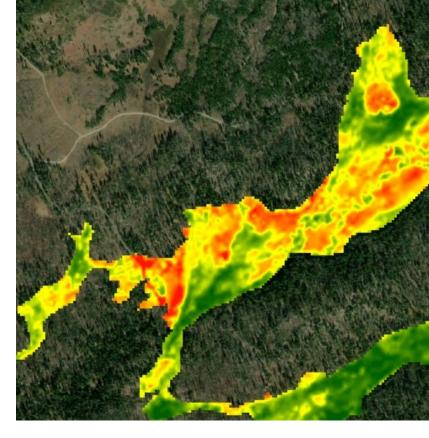
21. Ackerson Meadow Restoration Slide 5

Incised channel passing through Ackerson Meadow (top and right). Design drawing excerpt (bottom). Image credit: American Rivers





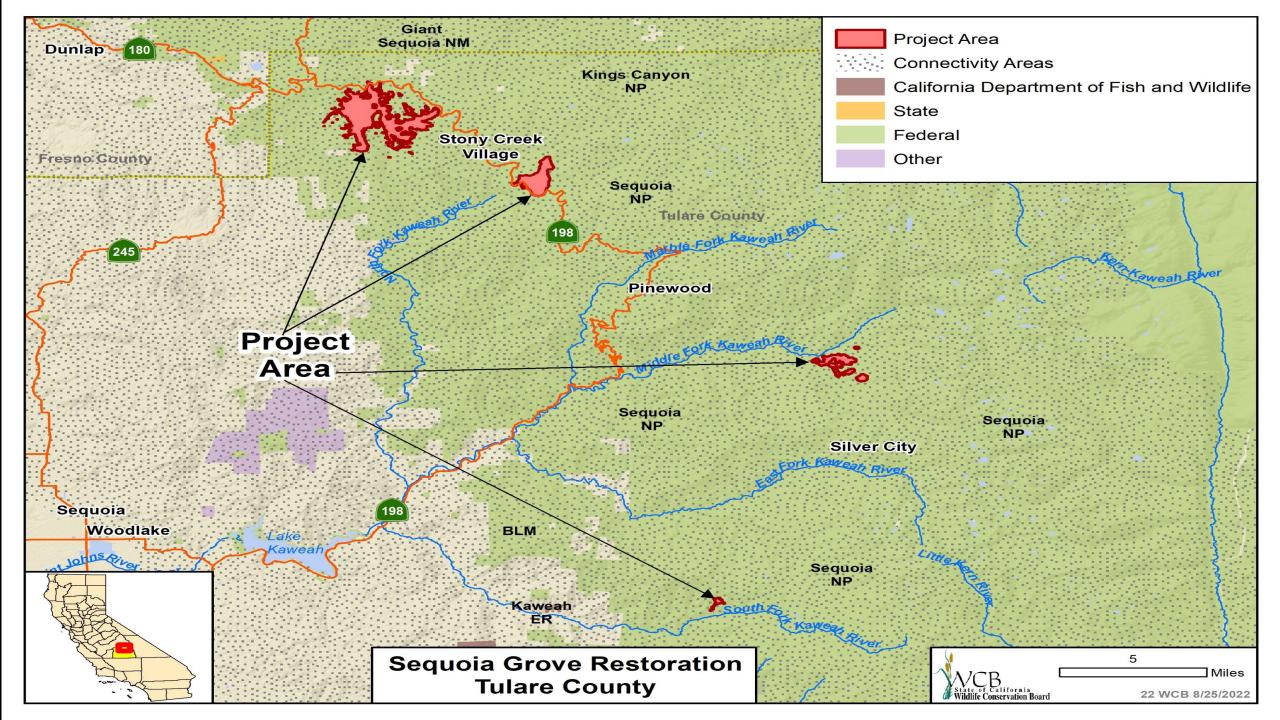




21. Ackerson Meadow Restoration

Ackerson Meadow Restoration Monitoring Plan excerpts. Image credit: American Rivers.





Slide 1

Giant sequoias in Sequoia & Kings Canyon National Parks. "Land of Giants."



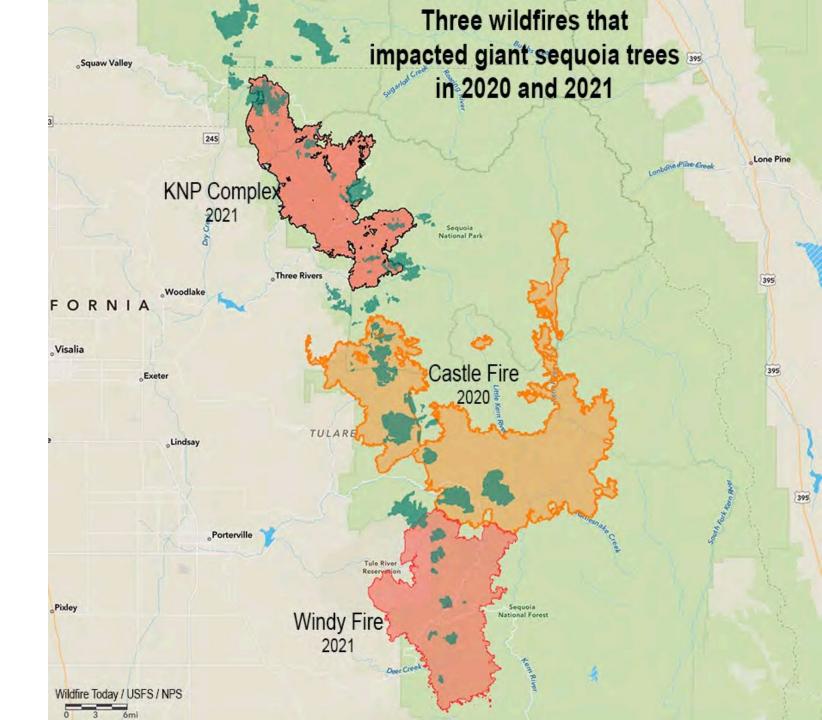
Slide 2

KNP Fire of 2021 burn area targeted for post-fire recovery.



Slide 3

Recent burn areas. Image credit: Wildfire Today, USFS, NPS.





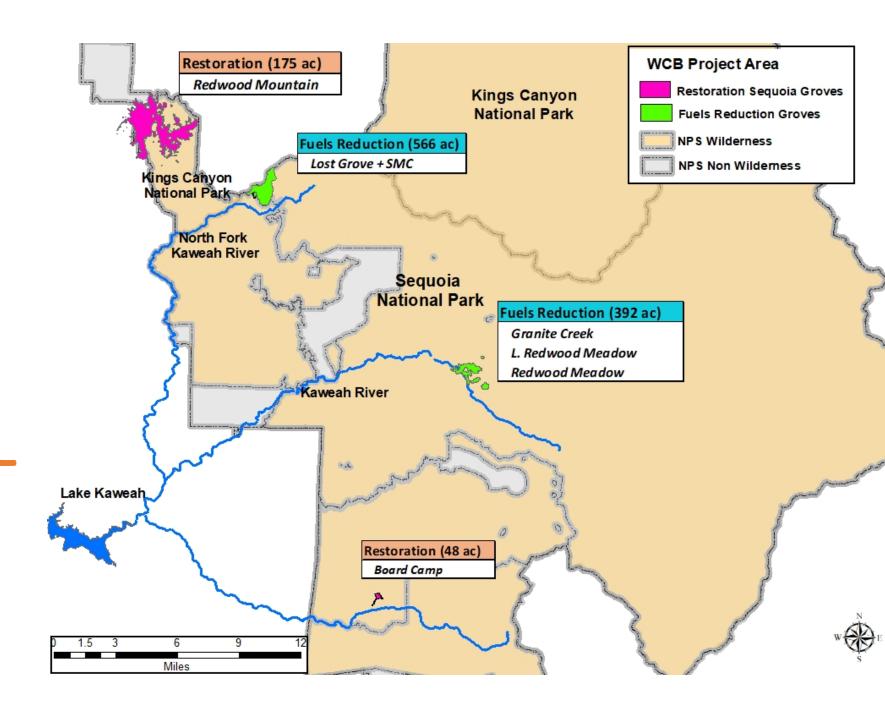


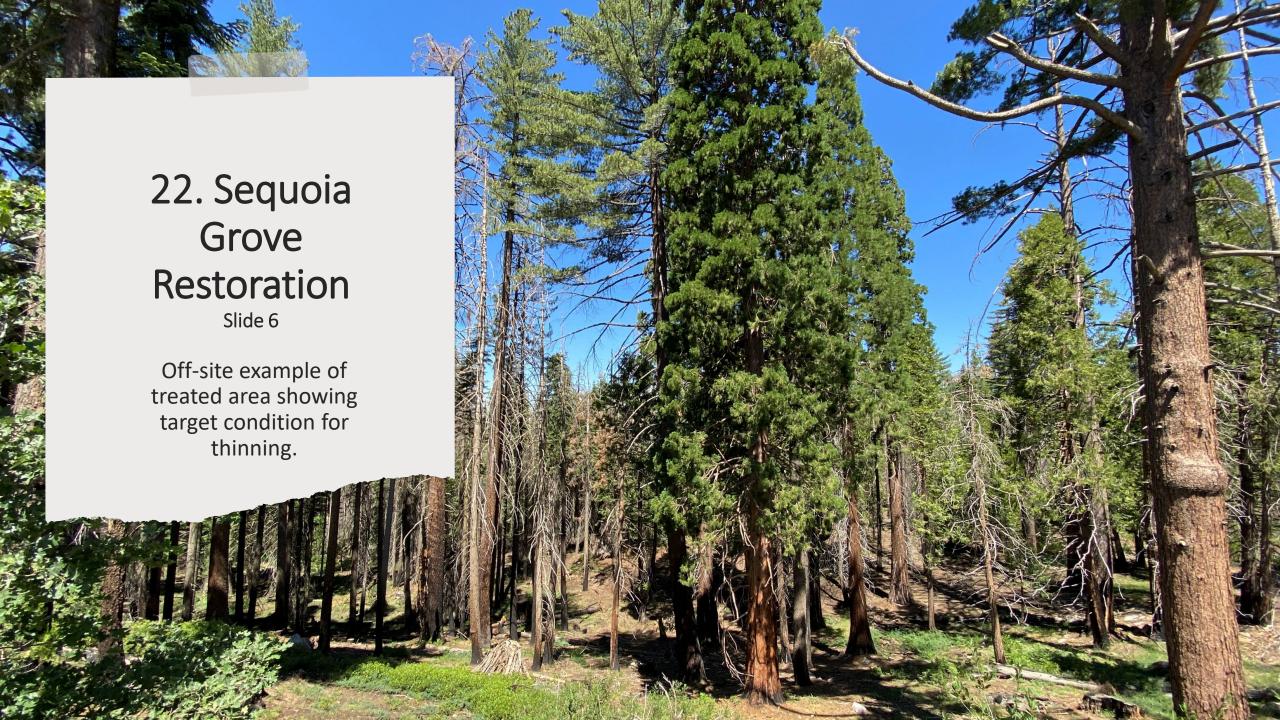
Burn area (left) and dense forest to be thinned in Lost Grove area (right).

Slide 4

Slide 5

Project treatments map. Image credit: GBI



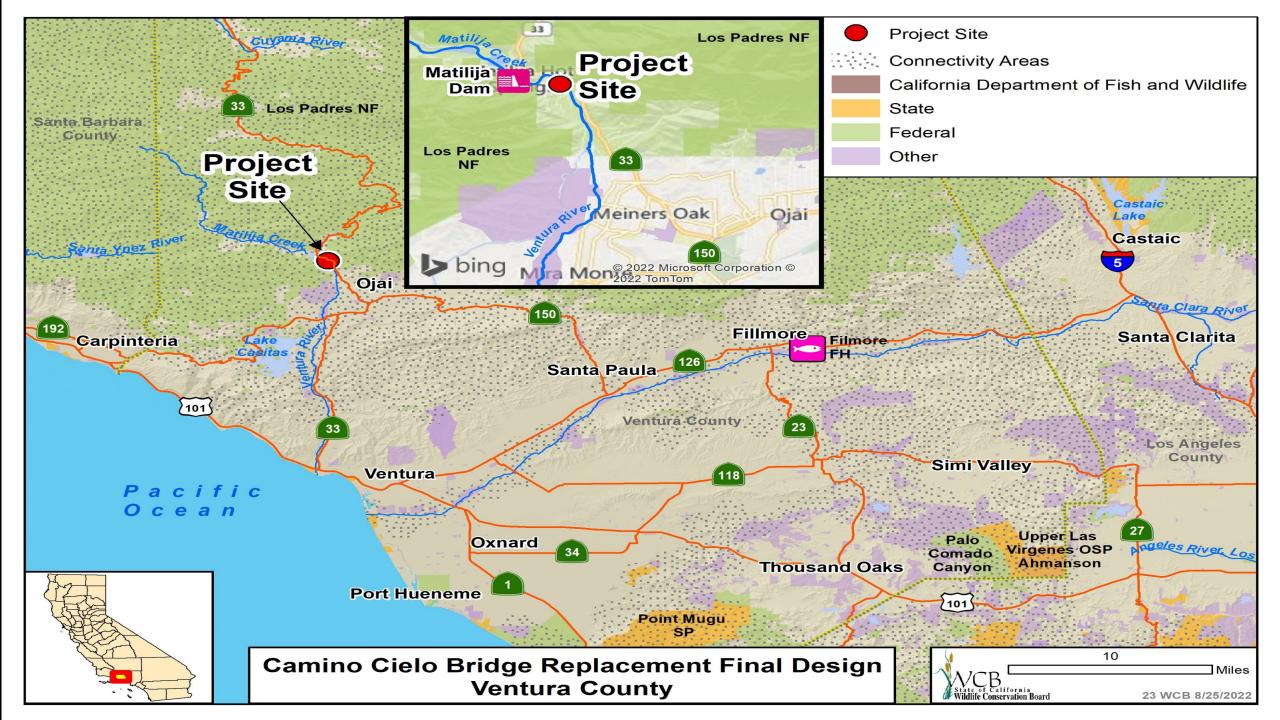


Slide 7

Sequoia & Kings Canyon National Parks.



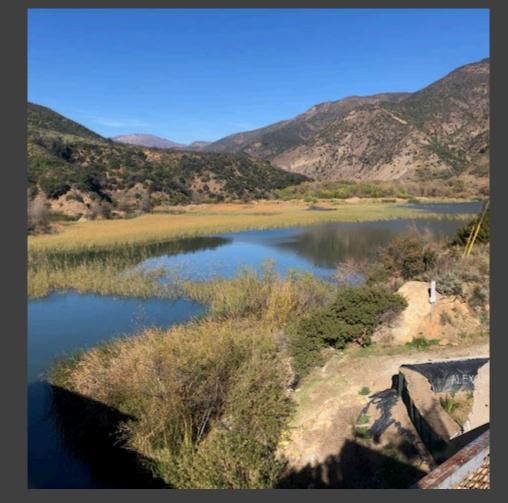




23. Camino Cielo Bridge Replacement Final Design Slide 1



- Volume of 7,000 acre-feet
- Intended for water supply, flood protection and recreational use
- Less than 150 acrefeet remaining
- Concrete is deteriorating from alkali-silica reaction

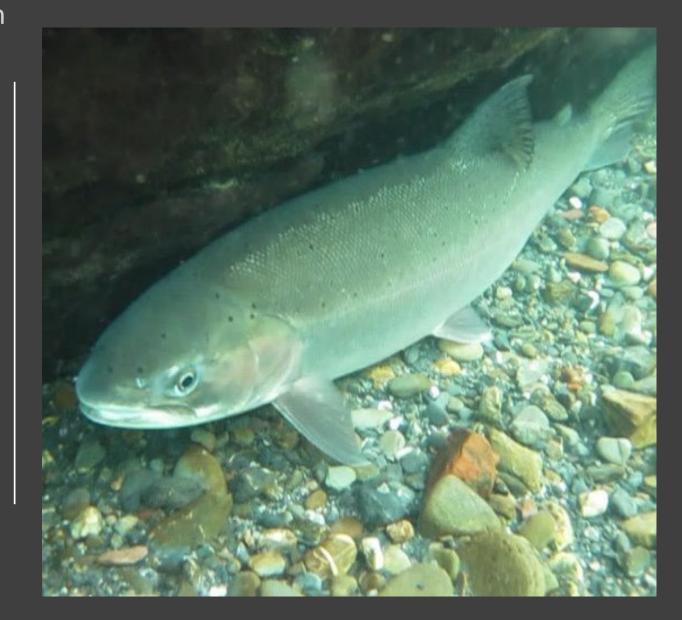


Trapped Sediment Behind Matilija Dam

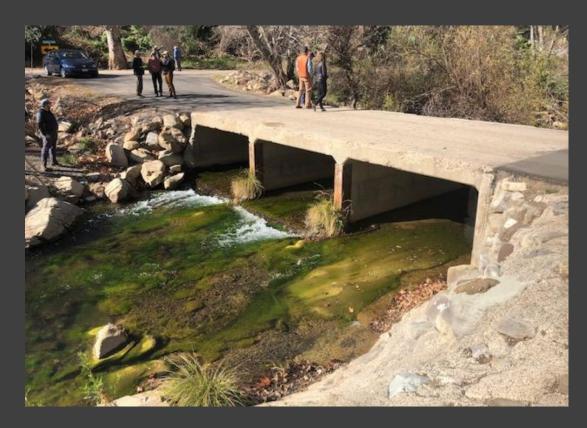
Matilija Dam

23. Camino Cielo Bridge Replacement Final Design Slide 2

- Southern California Steelhead
 - National Marine Fisheries Service priority recovery action
 - CDFW Fish Passage Barrier Priority List
- Wildlife Habitat
 - 65 special-status wildlife species
 - 54 special-status plant species
 - Six sensitive natural communities
- Sediment Transportation/Beach Nourishment



23. Camino Cielo Bridge Replacement Final Design Slide 3



Camino Cielo Bridge

Matilija Dam Ecosystem Restoration Project (MDERP)

- WCB allocated \$5.2 million in May 2020
 - Matilija Dam Removal Final Designs
 - Designs for modification of three downstream levees
- Camino Cielo Bridge Replacement
 - Revised preliminary designs
 - Final designs
 - Environmental review

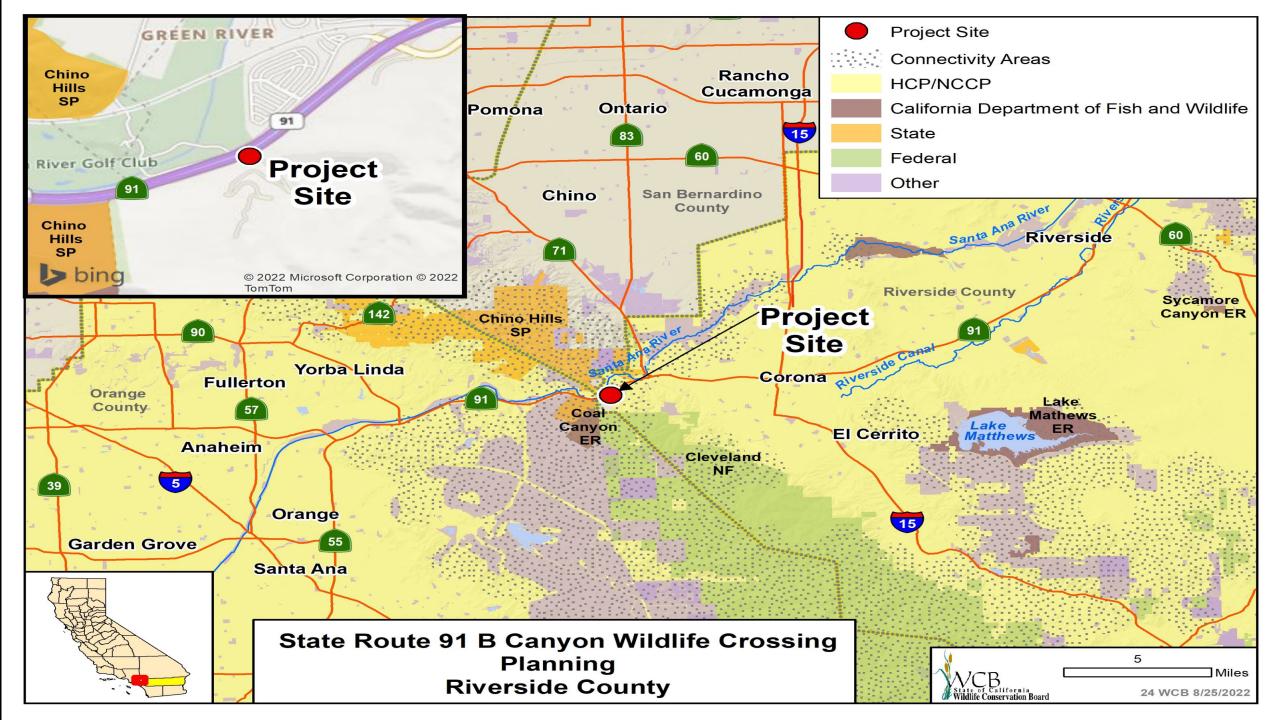
23. Camino Cielo Bridge Replacement Final Design Slide 4

Project Benefits

- 17.3 miles of high-quality spawning and rearing habitat
- 2,268 acres of varied riparian habitats
- Restoration of sediment transport
- Emergency access for first responders

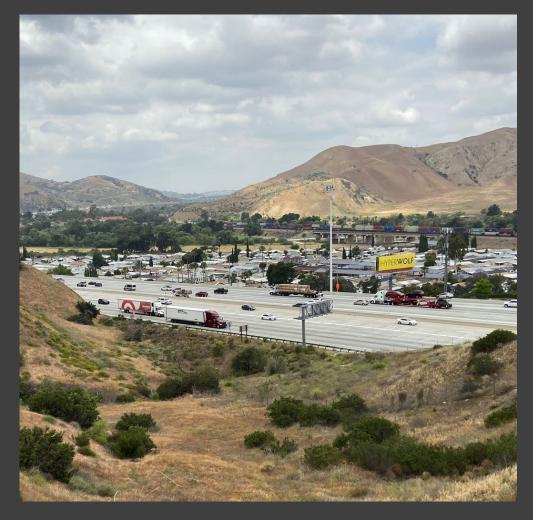


Ventura River



- Santa Ana Mountains
 - Over 350,000 acres of nearly contiguous habitat
 - At risk of isolation and fragmentation by roads and urban development
 - Predicted loss of mountain lions in the region within 12 to 50 years
- Chino Hills
 - California Essential Habitat Connectivity Project natural landscape block
- "B Canyon" listed on California Department of Fish and Wildlife Barrier Priorities List



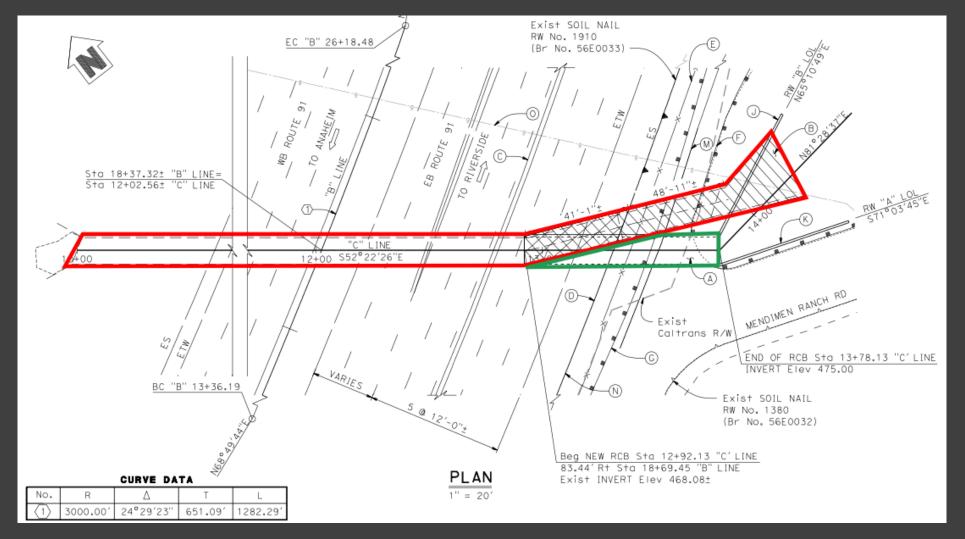


State Route 91





Kinked Culvert Under State Route 91





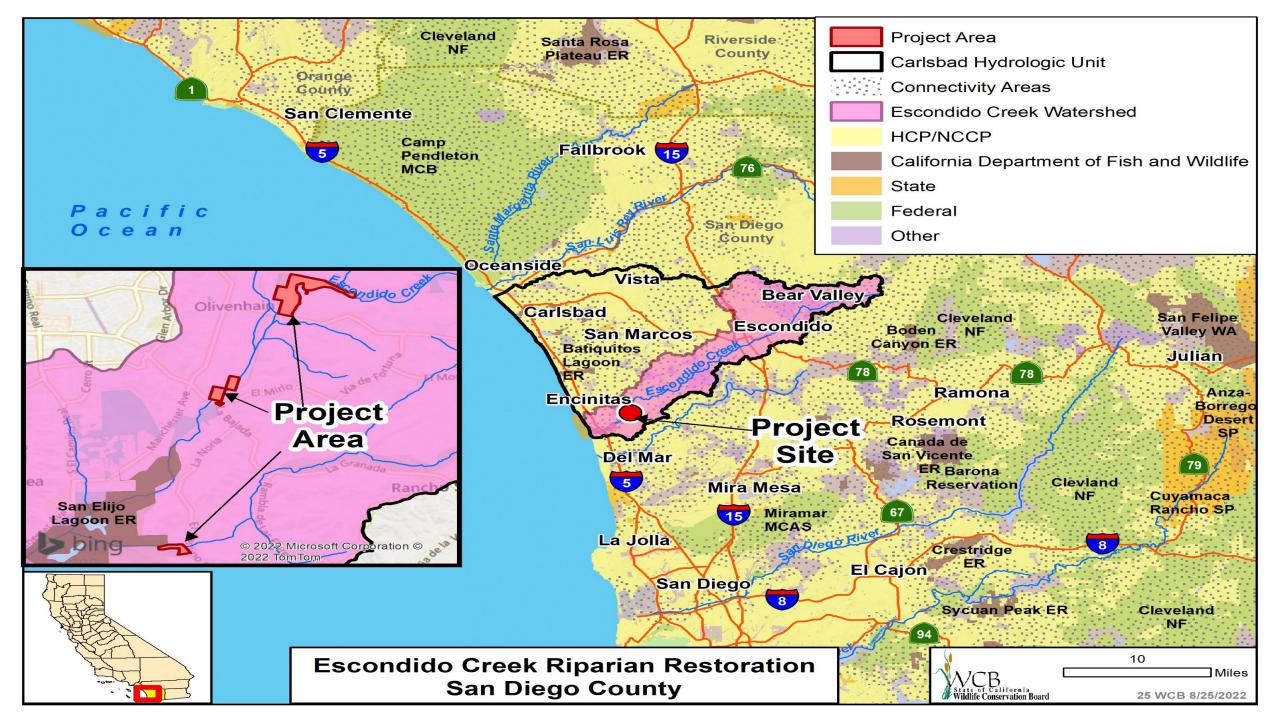
Looking South Towards Santa Ana Mountains



Looking North Towards Chino Hills

- Final Designs
 - New 12-foot culvert
 - Straight crossing with unobstructed sight lines under SR-91
- Mountain lion corridor
 - Santa Ana River and Chino Hills State Park to the north
 - Conservation lands within Western Riverside County Multi-Species Conservation Plan
- Wildlife Species
 - Mountain lions
 - Bobcats
 - Mule deer





Vista Deeanside Jesmond Dene San Marcos Lake San Marcos Harmony Grove Leucadia Encinitas Cardiff by the Rancho Santa Map Date: Aug Cumulative WCB Projects Administered by Nature Colle

25. Escondido Creek Riparian Restoration

Proposed project complements and expands previous WCB grants to Nature Collective

Slide 2

The Problem – Noxious invasive plants outcompeting native riparian and marsh plants at San Elijo Lagoon ER site #1









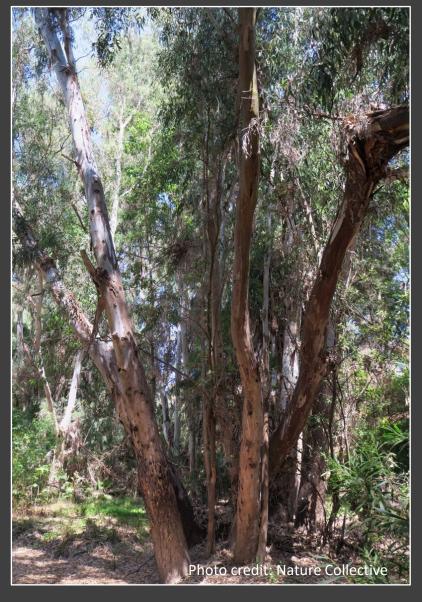






25. Escondido Creek Riparian Restoration Slide 3

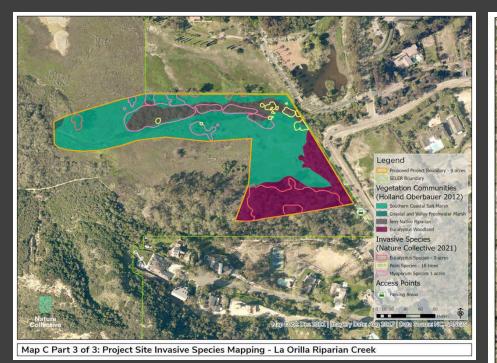
The Problem – Palms and eucalyptus invading creek corridor and invasive annuals providing limited habitat value for birds and pollinators at San Elijo Lagoon ER site #2







The Problem –Eucalyptus, arundo, castor bean, Cape ivy, and other invasives suppress native riparian woodland and increase fire threat at Val Sereno Preserve (County land).







Map C Part 1 of 3: Project Site Invasive Species Mapping - Val Sereno Preserve

Solution – Survey, map, and monitor









25. Escondido Creek Riparian Restoration

Solution – Active restoration of native riparian trees and transitional habitat with emphasis on pollinator plants

Slide 8

Outcome - Removal of 30 acres of invasive plants:

- Over 15 acres of eucalyptus
- Over 5 acres of palms
- 30 acres of understory grasses, forbs, and shrubs









Outcome – 19 acres of active restoration for:

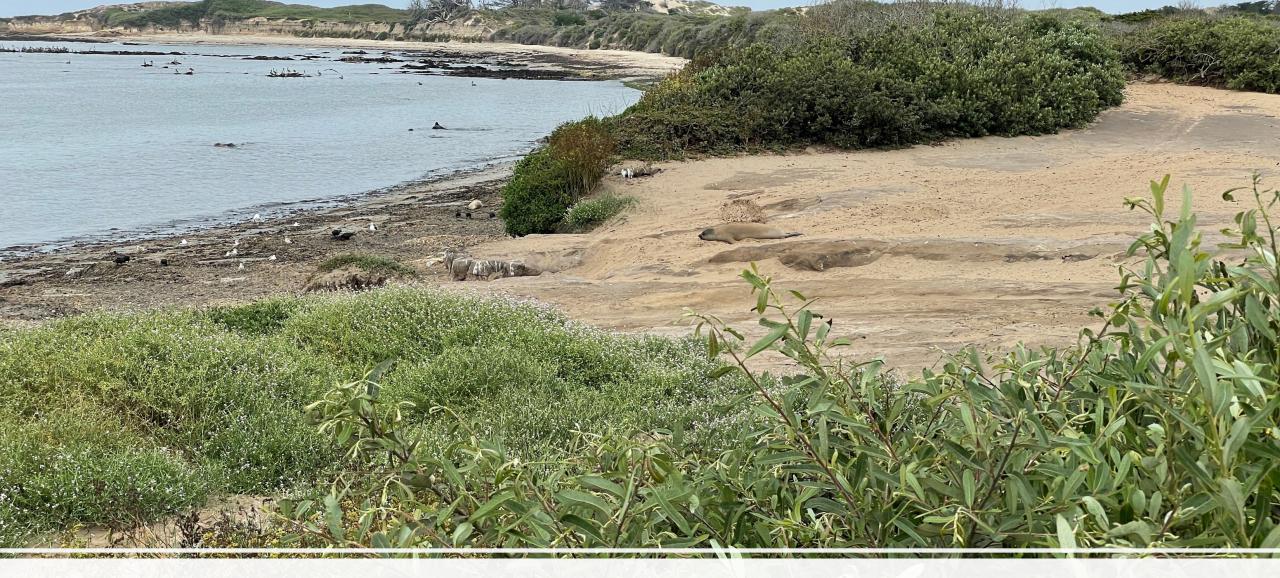
- Riparian trees and habitat structure
- Transitional habitat
- Pollinator habitat



Slide 10

Outcome – Ecosystem benefits:

- Recolonization by native plants
- Improved wildlife corridor
- Food resources available year round
- More native pollinators
- Climate resilient habitat
- More water in creeks
- Less fire threat
- Long-term management and monitoring



Closed Session



Stay Safe and Healthy, Enjoy the Rest of Your Day!

Next Board meeting – November 15, 2022, 10:00 am – CNRA HQ