



Wildlife Conservation Board Meeting
February 24, 2022
10:00 am

Centennial Point Ranch



Item 2. Discussion and Selection of new Board Chair



Item 3. Public Forum

Lake Elsinore



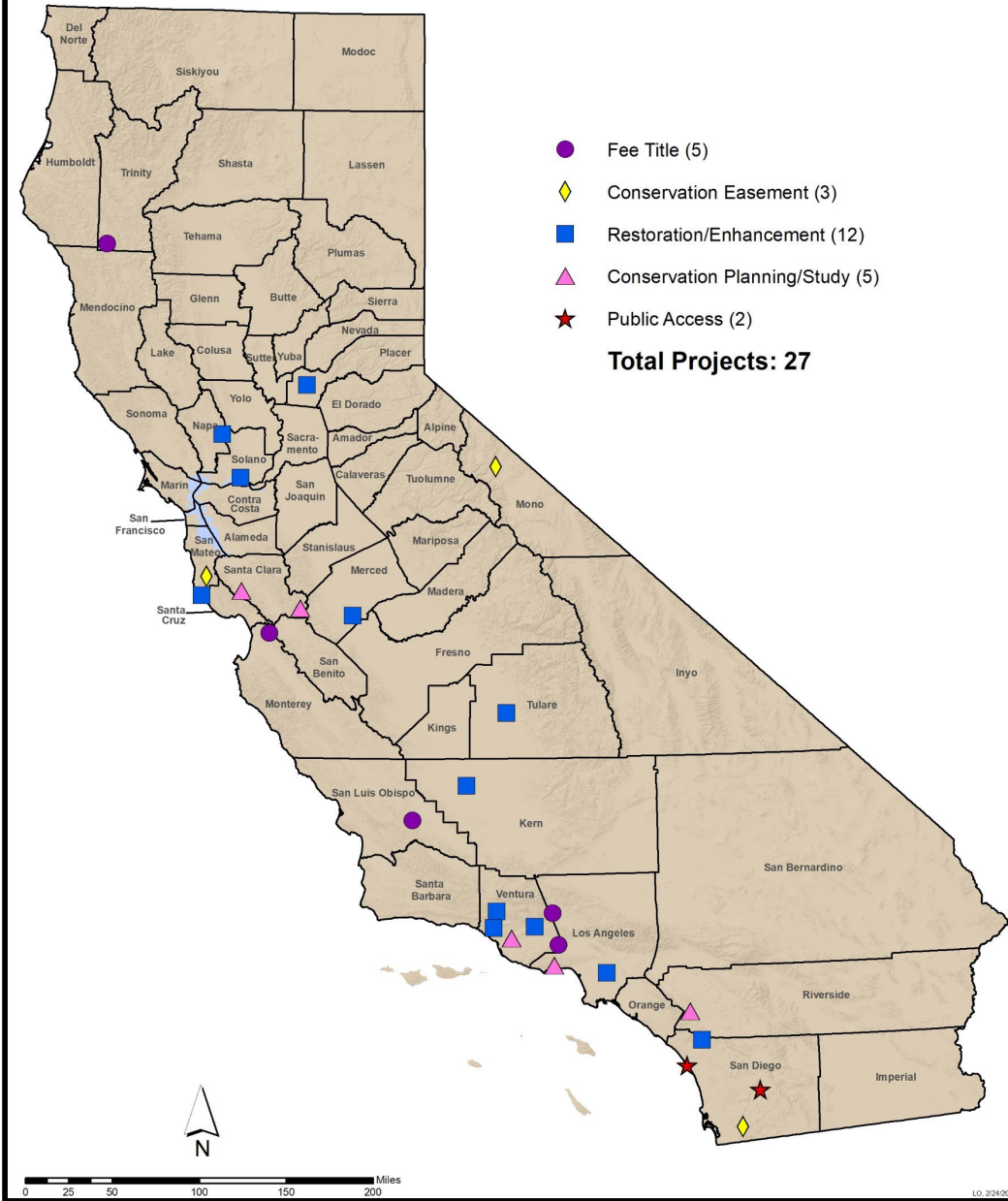
Item 4. Funding Status

Grizzly Island Wildlife Area



Wildlife Conservation Board Proposed Projects

February 24, 2022



Wildlife Conservation Board Meeting February 24, 2022 Project Map



Consent Items 5-18

Central California Water Conveyance Improvement

Item 5. Recovery of Funds

Fund Name	Amount
Habitat Conservation Fund	\$150,781.92
Greenhouse Gas Reduction Fund	\$11,655.67
California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Fund	\$46,645.54
Safe Drinking Water, Water Quality and Supply, Flood Control, River and Coastal Protection Fund of 2006	\$6,865.43
Water Quality, Supply, and Infrastructure Improvement Fund of 2014	\$423,011.89
The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018	\$17,601.00
Total Recoveries for All Funds	\$656,561.45

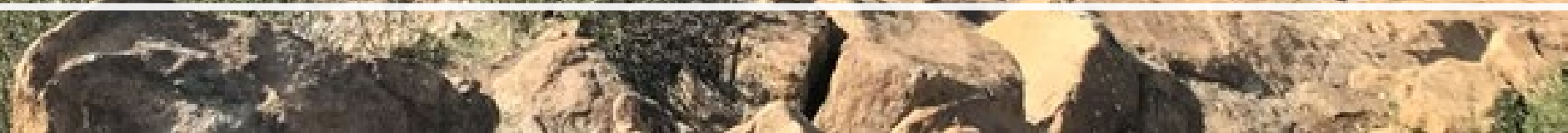


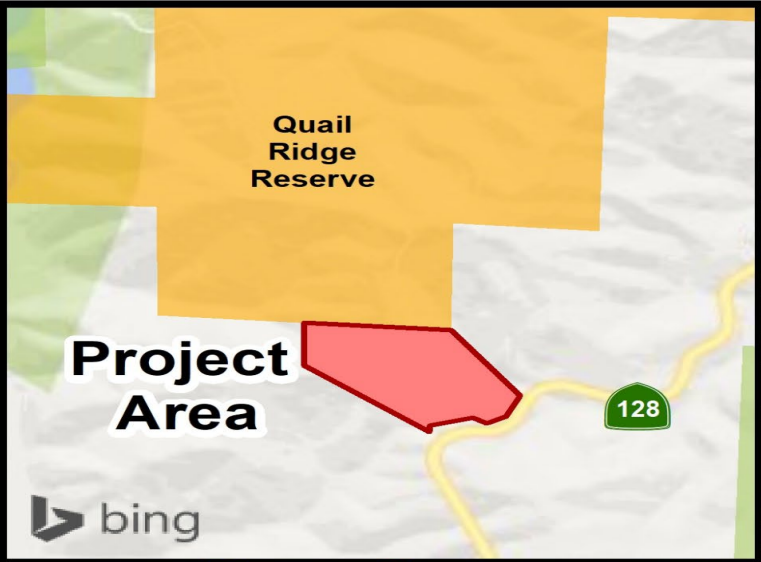
**Consent Items 5-18
Motion**



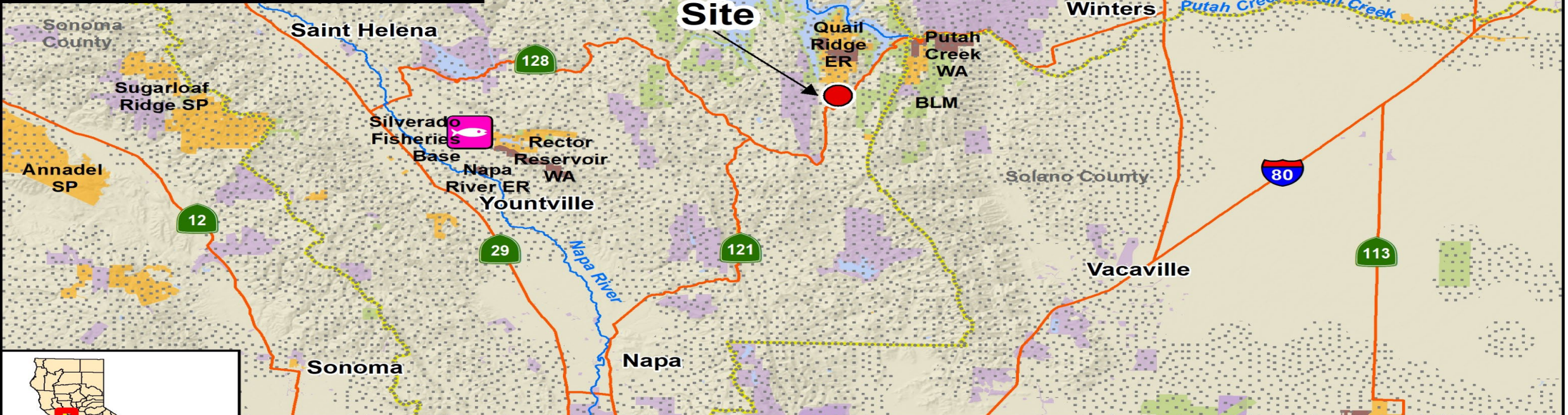
Proposed Calendar Items 19-32

Chachaany Humuk Trail





- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



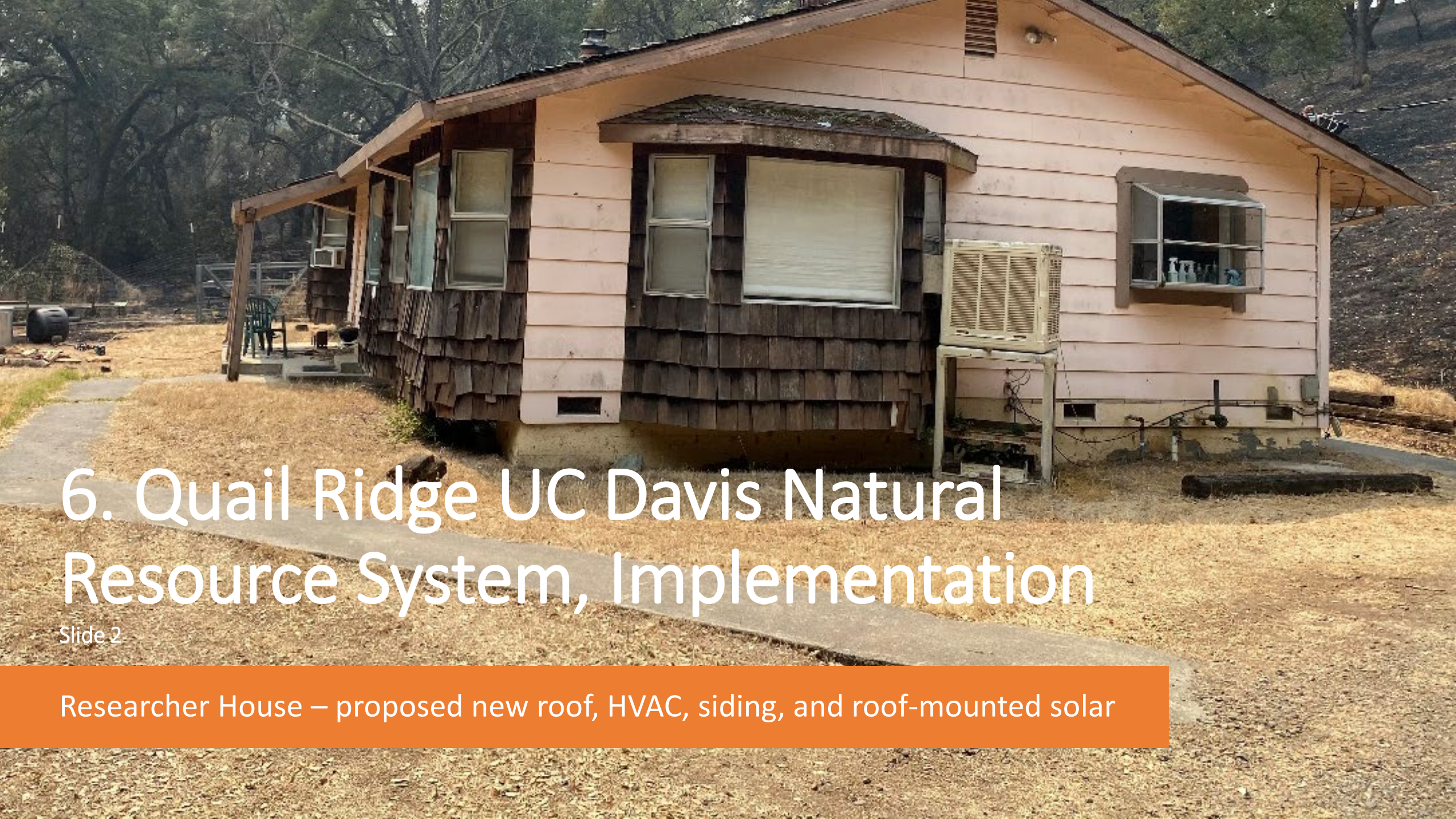
**Quail Ridge UC Davis Natural Reserve System,
Implementation
Napa County**

An aerial photograph of a large, forested peninsula surrounded by a blue lake. The land is covered in dense green trees, with some lighter green patches indicating open areas or different vegetation types. The lake has several smaller islands and peninsulas extending into it. The overall scene is a natural, undeveloped landscape.

6. Quail Ridge UC Davis Natural Resource System, Implementation

Slide 1

Topography of Quail Ridge Reserve – 18 miles of dirt roads traverse the peninsula.



6. Quail Ridge UC Davis Natural Resource System, Implementation

Slide 2

Researcher House – proposed new roof, HVAC, siding, and roof-mounted solar



6. Quail Ridge UC Davis Natural Resource System, Implementation

Slide 3

- Studio, post-fire, with cement board siding and metal roof



6. Quail Ridge UC Davis Natural Resource System, Implementation

Slide 4

Field Station – proposed roof-mounted
solar



6. Quail Ridge UC Davis Natural Resource System, Implementation

Slide 5

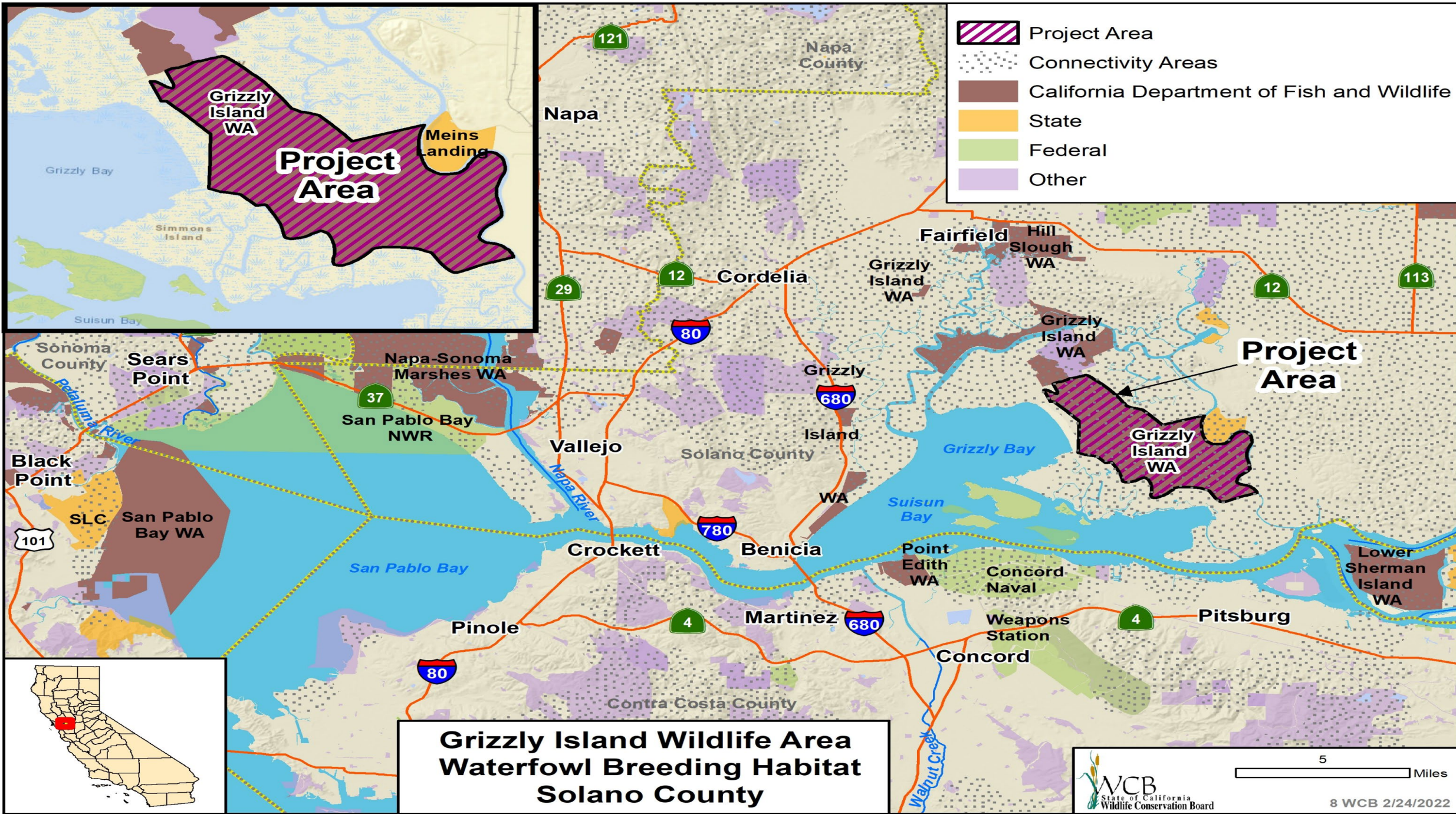
Class at Field Station



6. Quail Ridge UC Davis Natural Resource System, Implementation

Slide 6

Tent Cabin – Class visit





7. Grizzly Island Wildlife Area Waterfowl Breeding Habitat

Slide 1

Upland destroyed by fire in 2019



7. Grizzly Island Wildlife Area Waterfowl Breeding Habitat

Slide 2


Upland area on the right burned,
perennial grasses on the left survived



7. Grizzly Island Wildlife Area Waterfowl Breeding Habitat

Slide 3

Small strip of perennial grasses that survived fire, located along a wetted ditch



7. Grizzly Island Wildlife Area Waterfowl Breeding Habitat

Slide 4

Upland unit to be replanted with native
grasses



7. Grizzly Island Wildlife Area Waterfowl Breeding Habitat

Slide 5

Location of brood pond

8. Centennial Point Ranch

Slide 1



An irrigation ditch on Centennial Point Ranch. Hunewill Ranch headquarters in upper right, Sawtooths in distance.

Photo by Sara Kokkelenberg



8. Centennial Point Ranch

Slide 2

Cattle pasture on Centennial Point Ranch.
Sweetwater Range on upper left, Town of
Bridgeport in distance.

Photo by Sara Kokkelenberg



8. Centennial Point Ranch

Slide 3

Sagebrush steppe habitat on Centennial Point Ranch. Bi-State sage-grouse telemetry data show concentrated use in this area of the ranch.

Photo by Susanna Danner



8. Centennial Point Ranch

Slide 4

Sawtooths (the border of Yosemite National Park) and Hunewill Hills above Centennial Point Ranch pasture.

Photo by Andrew Ehlert

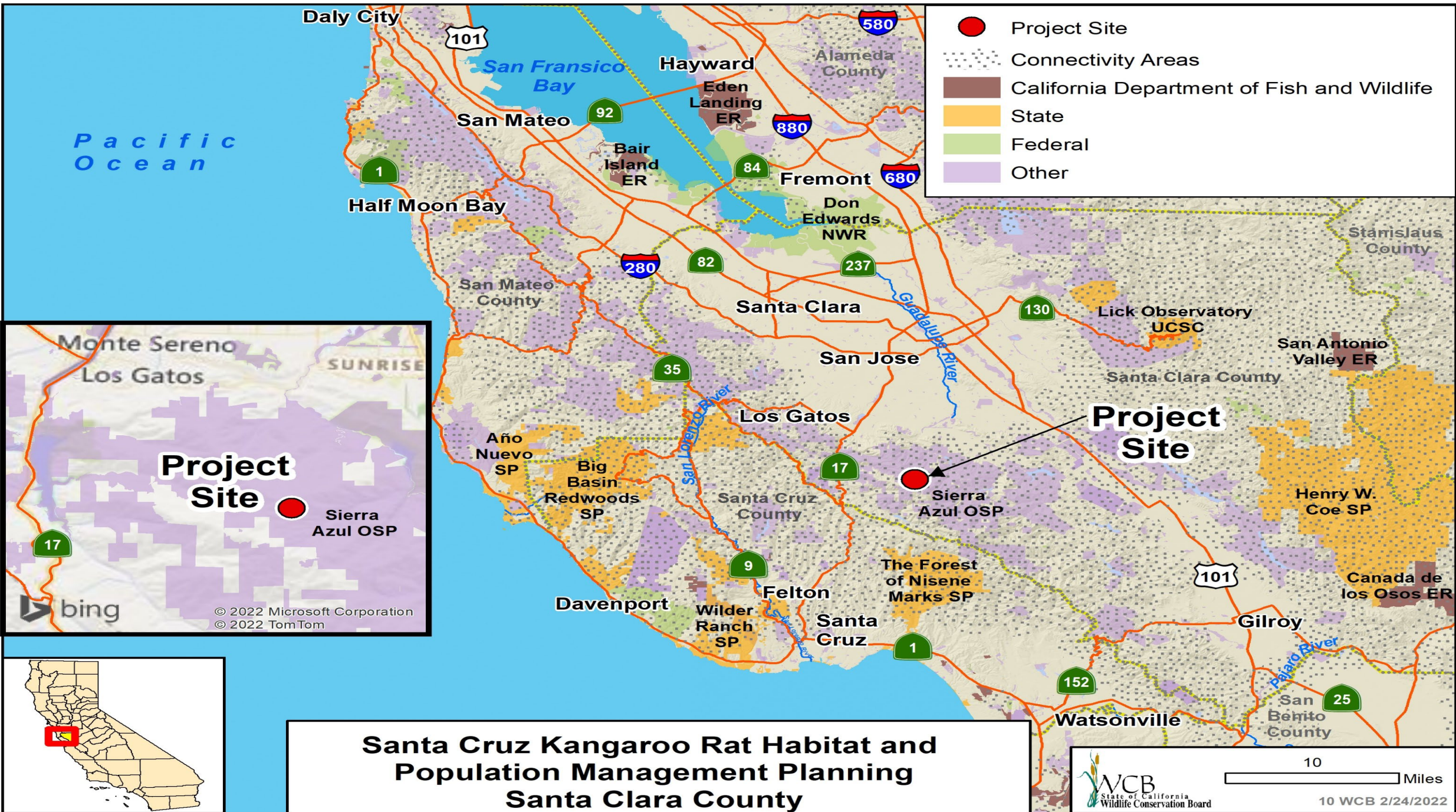


The East Walker River flows through Centennial Point Ranch.


Photo by Sara Kokkelenberg

8. Centennial Point Ranch

Slide 5



**Santa Cruz Kangaroo Rat Habitat and Population Management Planning
Santa Clara County**




9. Santa Cruz Kangaroo Rat Habitat and Population Management

Slide 1

Santa Cruz Kangaroo Rat Habitat






9. Santa Cruz Kangaroo Rat Habitat and Population Management

Slide 2

Santa Cruz Kangaroo Rat Habitat



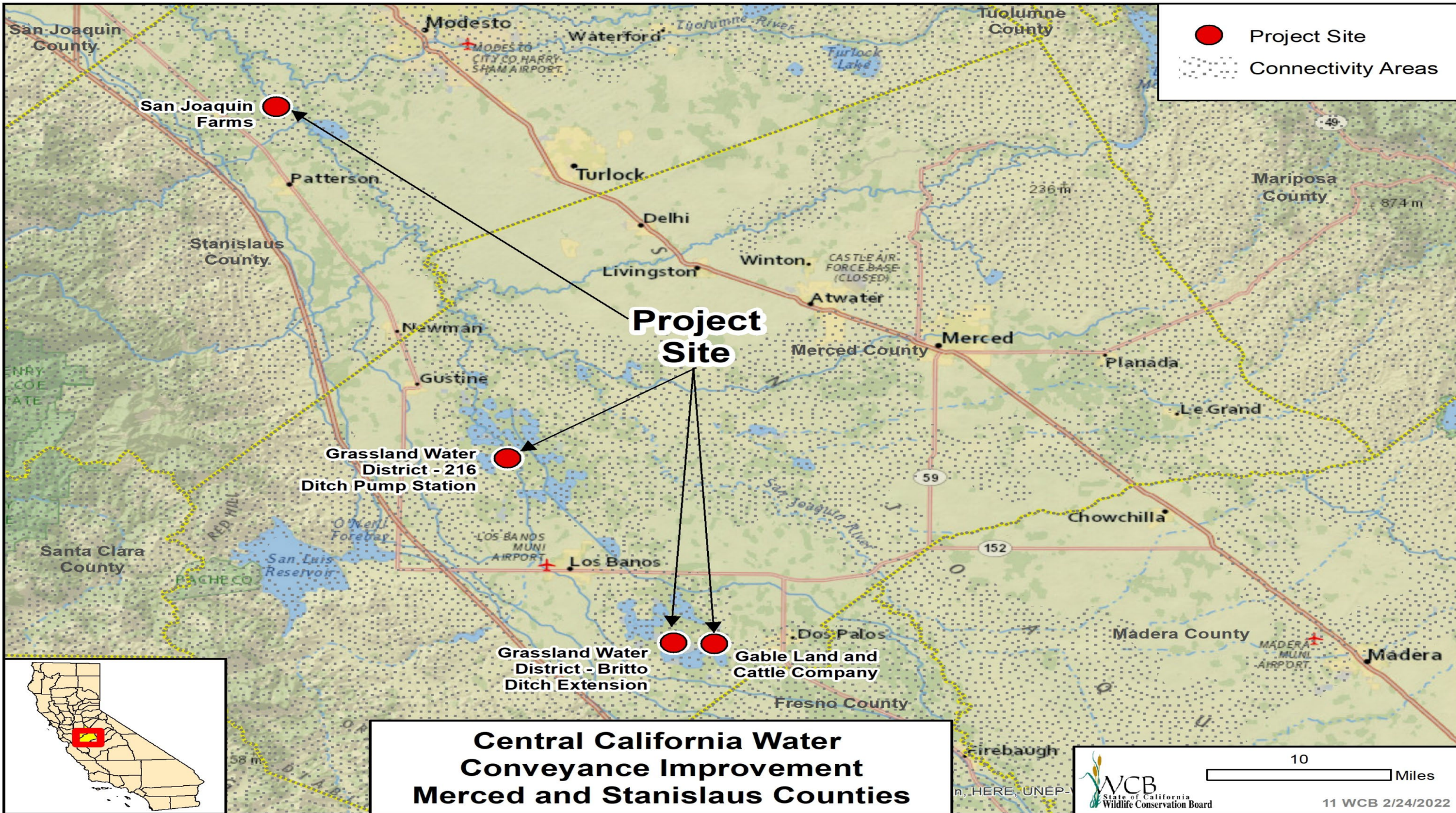


9. Santa Cruz Kangaroo Rat Habitat and Population Management

Slide 3

Santa Cruz Kangaroo Rat Habitat







10. Central California Water Conveyance Improvement

Slide 1

Moist-soil plant unit at San Joaquin Farms

10. Central California Water Conveyance Improvement

Slide 2

Grasslands Water District
wetland unit



10. Central California Water Conveyance Improvement

Slide 3

Grassland Water District
wetland off the Britto Ditch

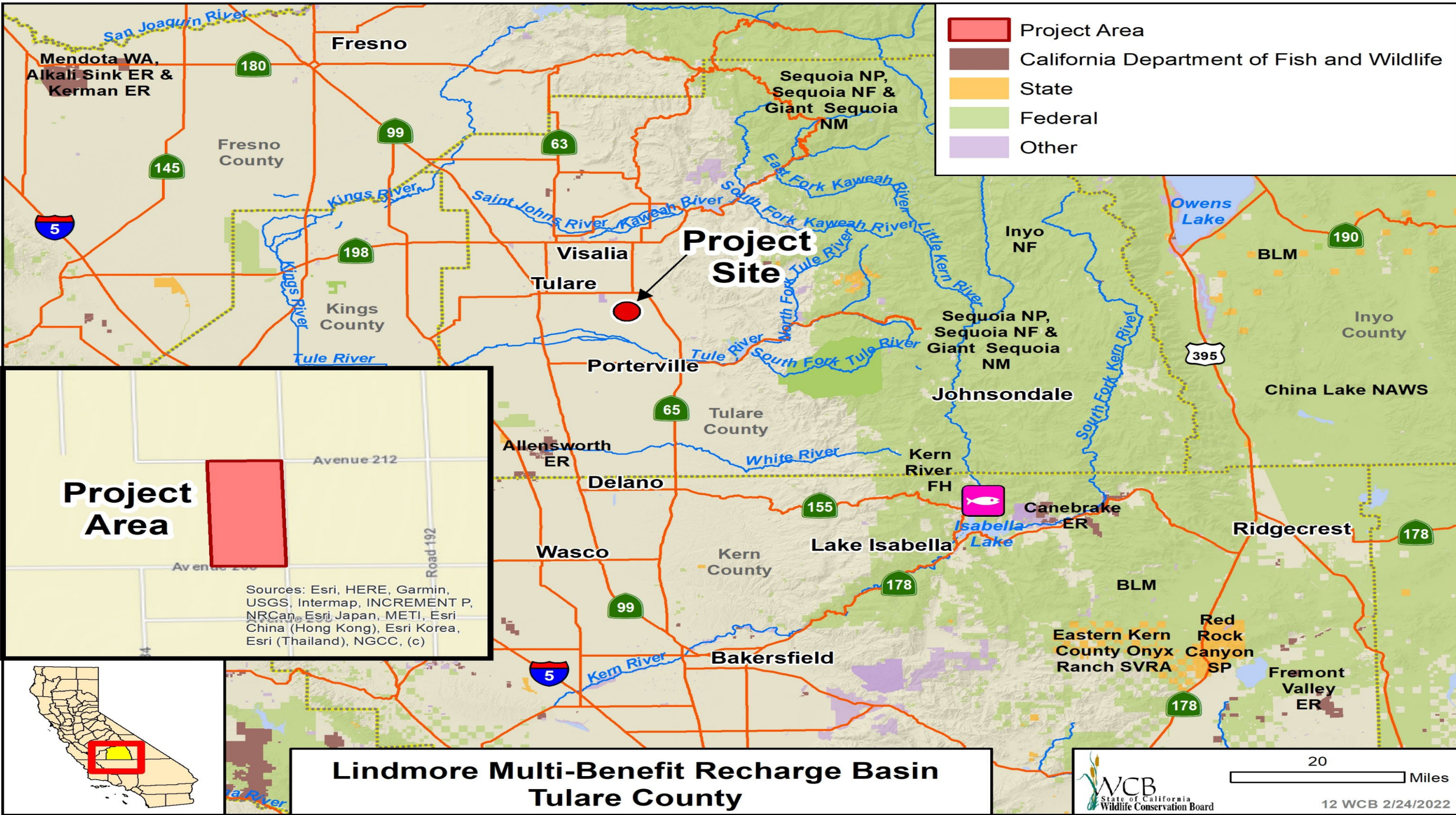


10. Central California Water Conveyance Improvement

Slide 4

Watergrass and swamp
timothy managed wetland
at Gable Land and Cattle
Company





- Project Area
- California Department of Fish and Wildlife
- State
- Federal
- Other

Project Area

Avenue 212

Road 192

Avenue 200

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c)




**Lindmore Multi-Benefit Recharge Basin
Tulare County**

WCB
State of California
Wildlife Conservation Board

20 Miles

12 WCB 2/24/2022



11. Lindmore Multi-Benefit Recharge Basin

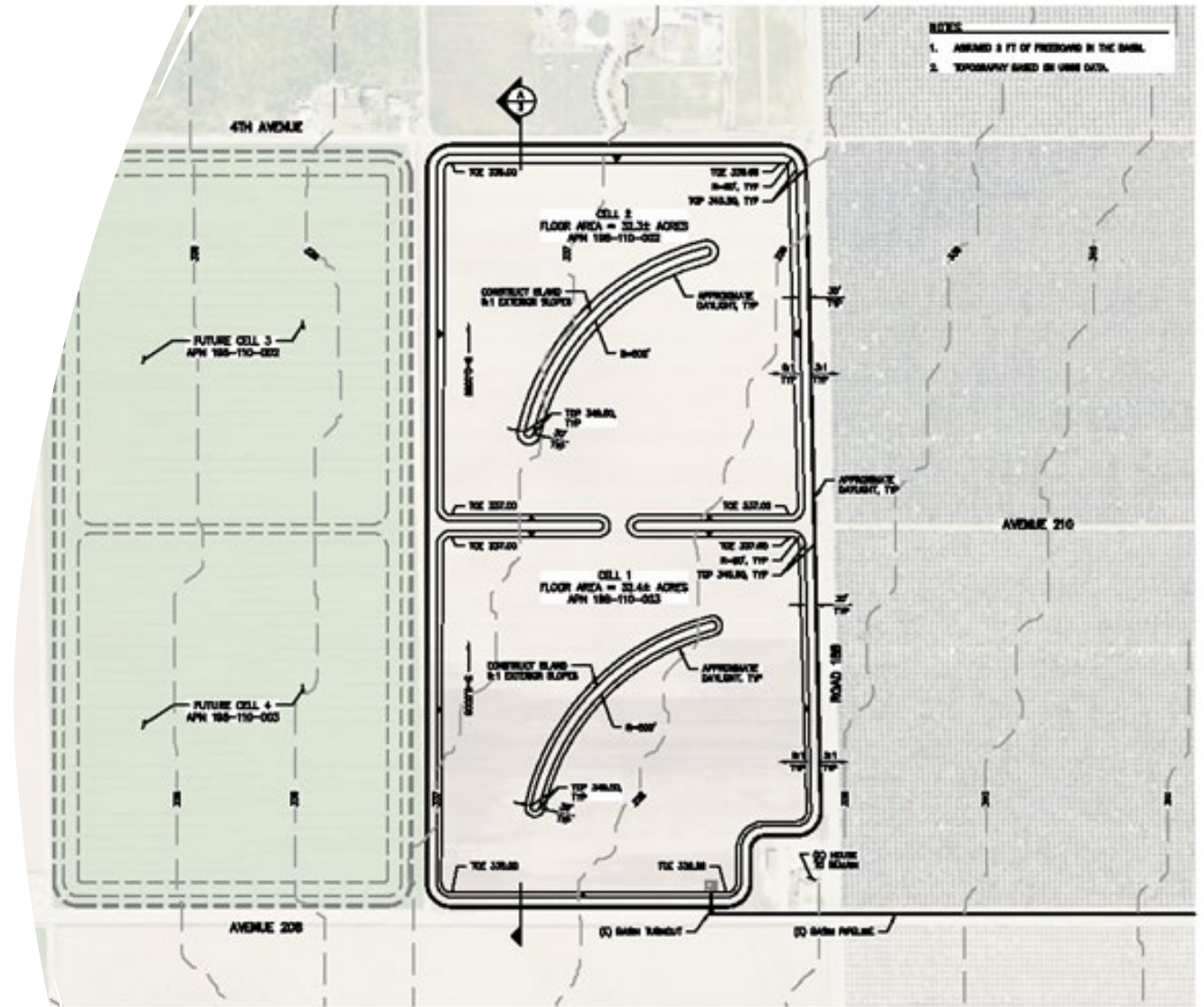
Slide 1

Project site – former irrigated
agricultural field

11. Lindmore Multi-Benefit Recharge Basin

Slide 2

Site plan for current project (right), and future basins (left in green)





12. Enhancing Wetlands at Goose Lake

Slide 1

Badger Almond during flood up





12. Enhancing Wetlands at Goose Lake

Slide 2

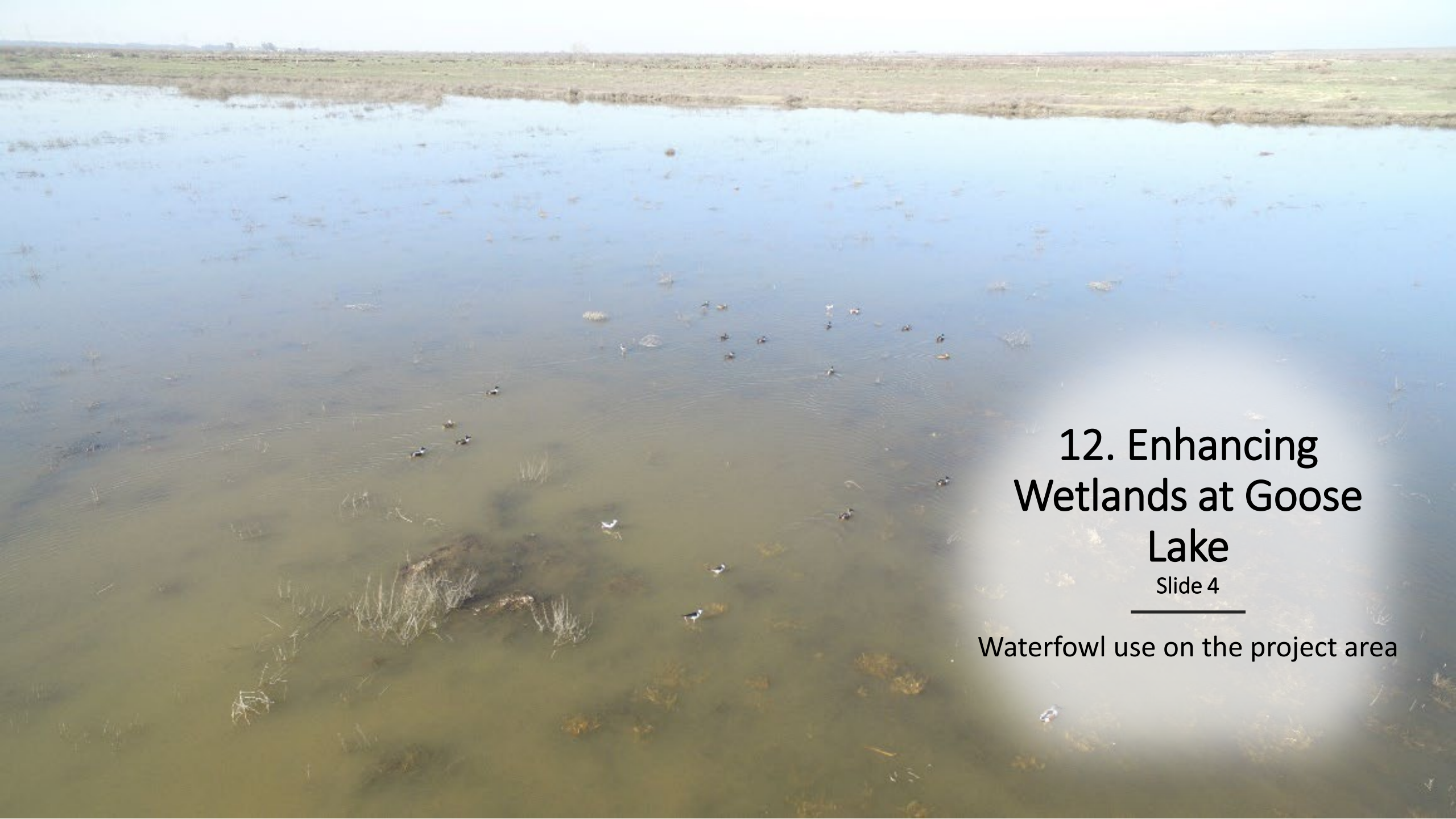
Dirt road access to wetlands



12. Enhancing Wetlands at Goose Lake

Slide 3

Wetlands adjacent to upland area



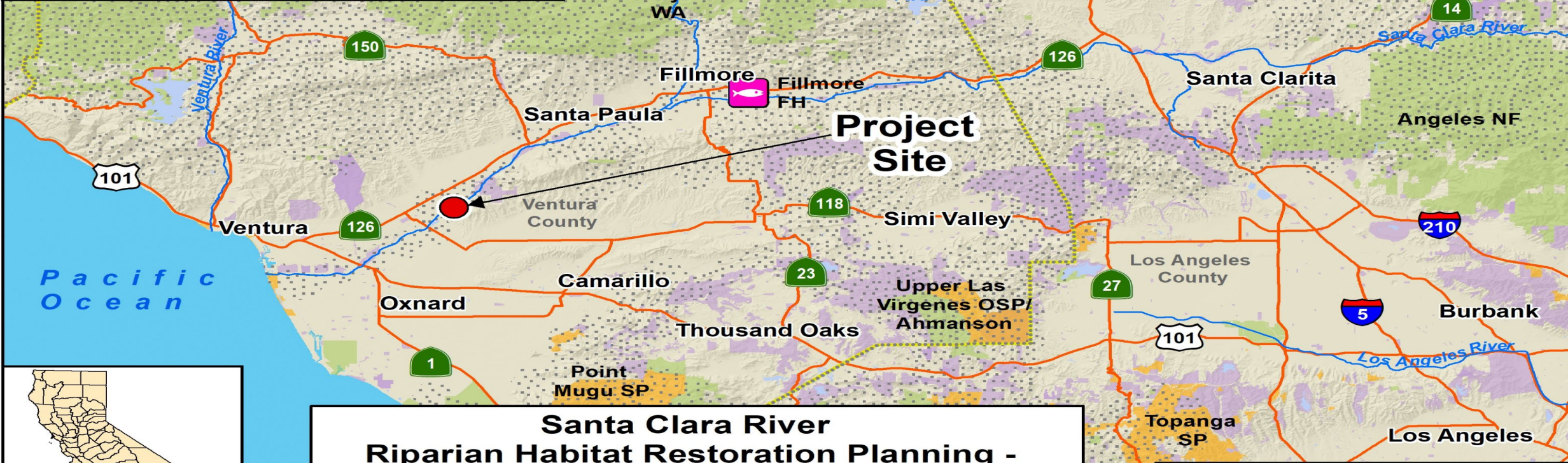
12. Enhancing Wetlands at Goose Lake

Slide 4

Waterfowl use on the project area



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Santa Clara River
Riparian Habitat Restoration Planning -
Santa Paula to Sespe Conservation Area
Ventura County**

10 Miles

WCB
State of California
Wildlife Conservation Board

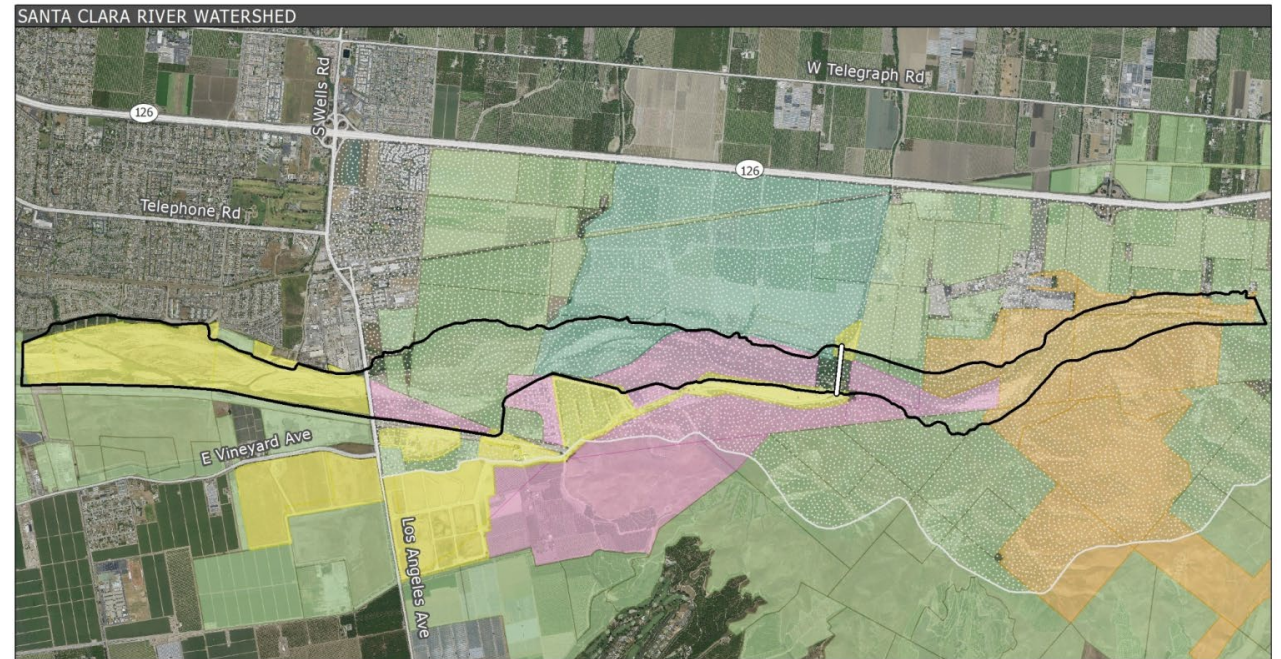
14 WCB 2/24/2022


13. Santa Clara River Riparian Habitat Restoration Planning - Santa Paula to Sespe Conservation Area

Slide 1

Project area outlined in
black, encompassing lands
within the 100-year
floodplain, and
landownership.

Credit: UC Santa Barbara





**13. Santa Clara River Riparian
Habitat Restoration Planning
- Santa Paula to Sespe
Conservation Area**

Slide 2

Typical *Arundo* stand formation in the
project area.

Credit: UC Santa Barbara



13. Santa Clara River Riparian
Habitat Restoration Planning -
Santa Paula to Sespe
Conservation Area
Slide 3

- Modeled breeding habitat suitability of the restoration area for the endangered Southwestern Willow Flycatcher.
- Credit: UC Santa Barbara





14. Community Wetlands Restoration Grant Program, Phase III Slide 1

Southern California Wetlands Recovery Project

Project benefits/outcomes:

- Reach a broader audience
- Fund habitat restoration projects that are rooted in and benefit historically marginalized/excluded communities
- Better support capacity building

Photo's courtesy of Meghan Martinez, State Coastal Conservancy

14. Community Wetlands Restoration Grant Program, Phase III

Slide 2

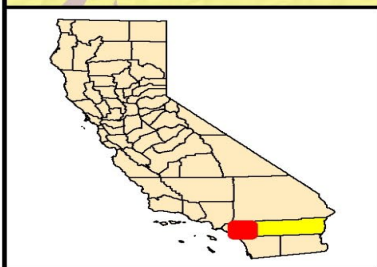
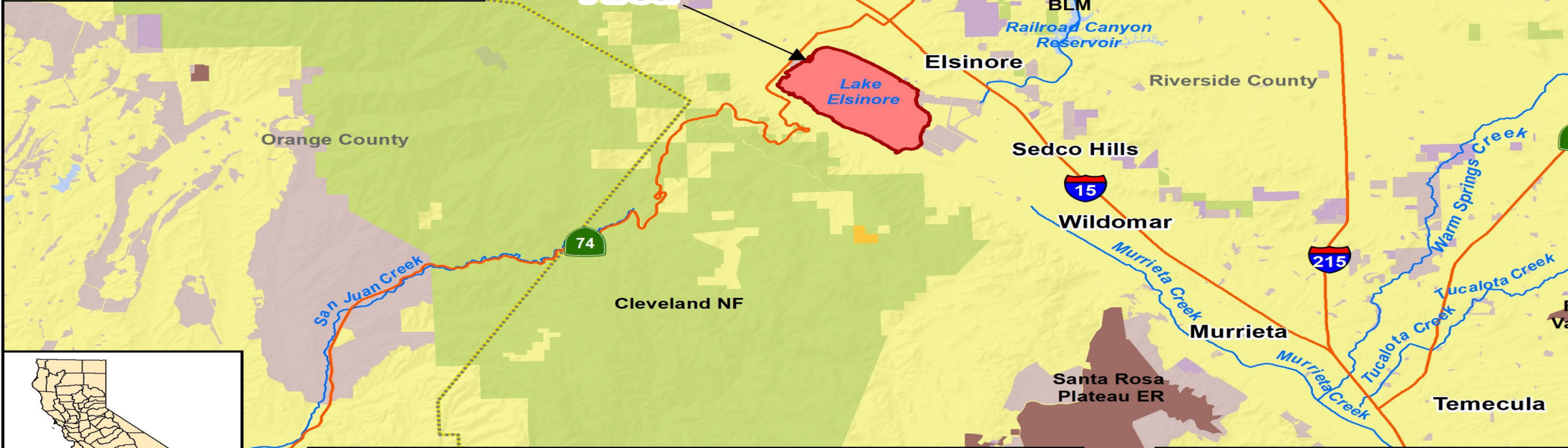
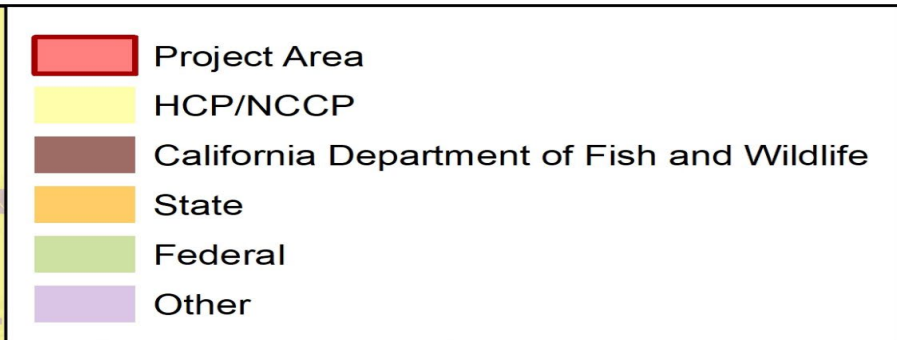
Southern California Wetlands Recovery
Project

Project benefits/outcomes:

- Reach a broader audience
- Fund habitat restoration projects that are rooted in and benefit historically marginalized/excluded communities
- Better support capacity building

Photo's courtesy of Meghan Martinez, State
Coastal Conservancy





**Lake Elsinore Aquatic Ecosystem Planning
 Riverside County**

An elevated panoramic view of Lake Elsinore, showing the lake's expanse, surrounding residential areas, and distant mountains under a cloudy sky. Large boulders are visible in the foreground on the right side.

15. Lake Elsinore Aquatic Ecosystem Planning

Slide 1

Elevated view of Lake Elsinore and the surrounding lands.



15. Lake Elsinore Aquatic Ecosystem Planning

Slide 2

View of Lake Elsinore from the water
surface.



15. Lake Elsinore Aquatic Ecosystem Planning

Slide 3

Birds over Lake Elsinore.



15. Lake Elsinore Aquatic Ecosystem Planning

Slide 4

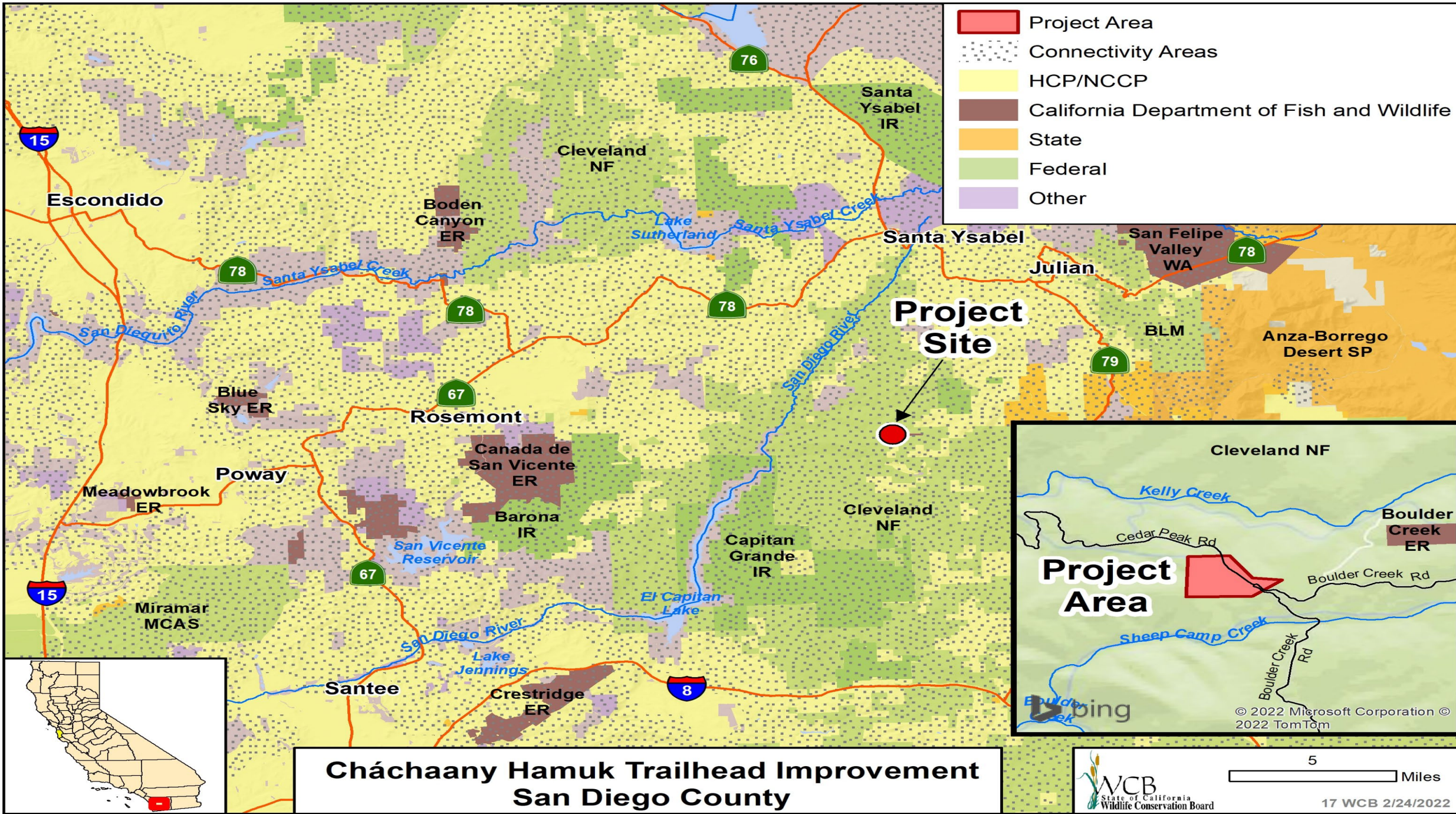
Water sports on Lake Elsinore.



15. Lake Elsinore Aquatic Ecosystem Planning

Slide 5

Fish kill due to degraded water conditions at Lake Elsinore.





**16. Chachaany Humuk
Trailhead Improvement**
Slide 1

Satellite photo of the Chachaany Hamuk trailhead showing the informal nature of the site.



16. Chachaany Humuk Trailhead Improvement

Slide 2

The Cháchaany Hamuk trailhead parking area needs grading and repair.

16. Chachaany Humuk Trailhead Improvement

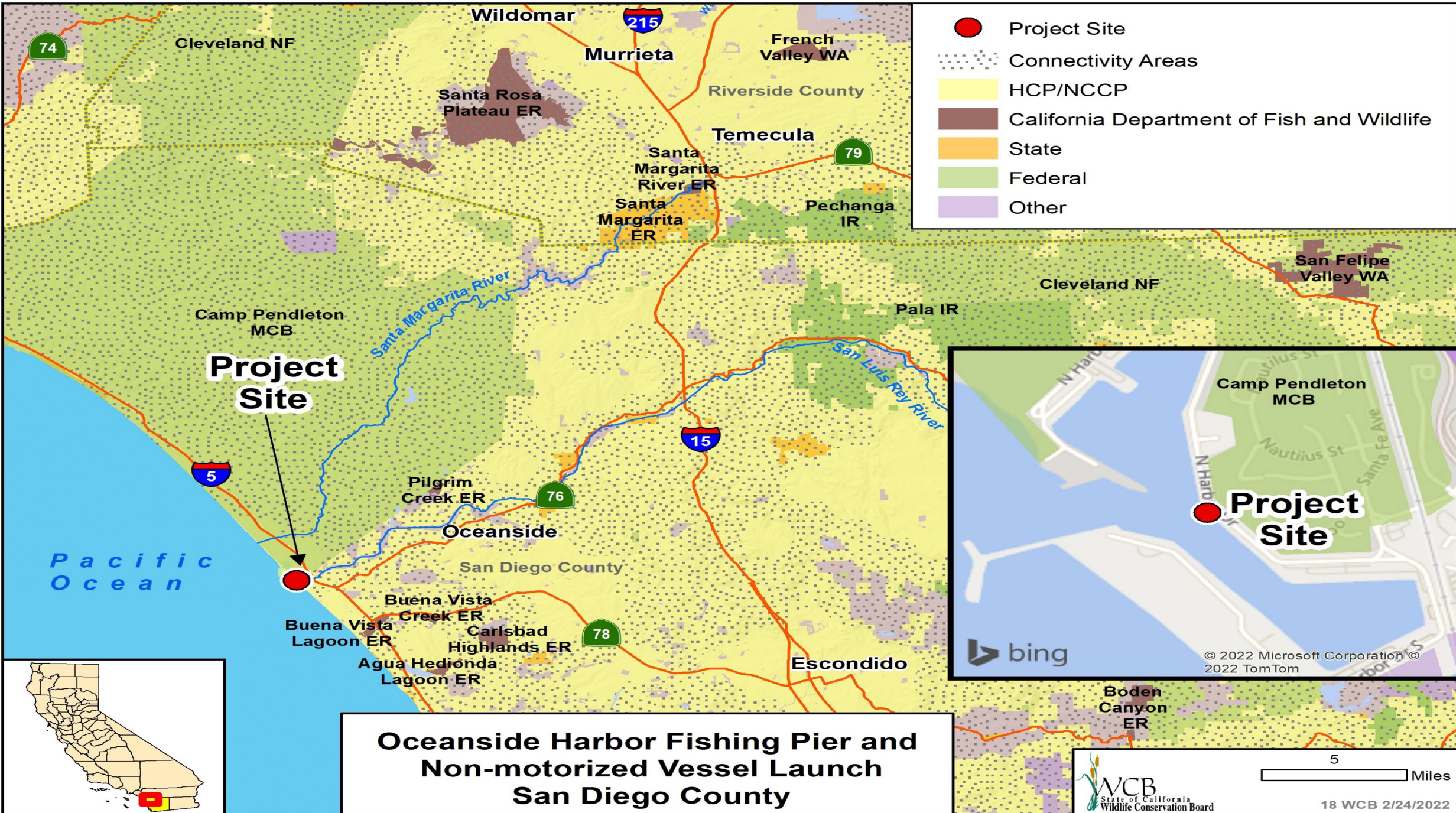
Slide 3

The Cháchaany Hamuk trailhead leads to Three Sisters Falls.

Project Improvements include:

- Resurface parking area and loop road
- Double vault toilet
- Ten-panel bulletin board
- Construct day use area
- Add interpretive and wayfinding signage
- Resurface entrance road





Oceanside Harbor Fishing Pier and Non-motorized Vessel Launch San Diego County



5 Miles



17. Oceanside Harbor Fishing Pier and Non-motorized Vessel Launch

Slide 1

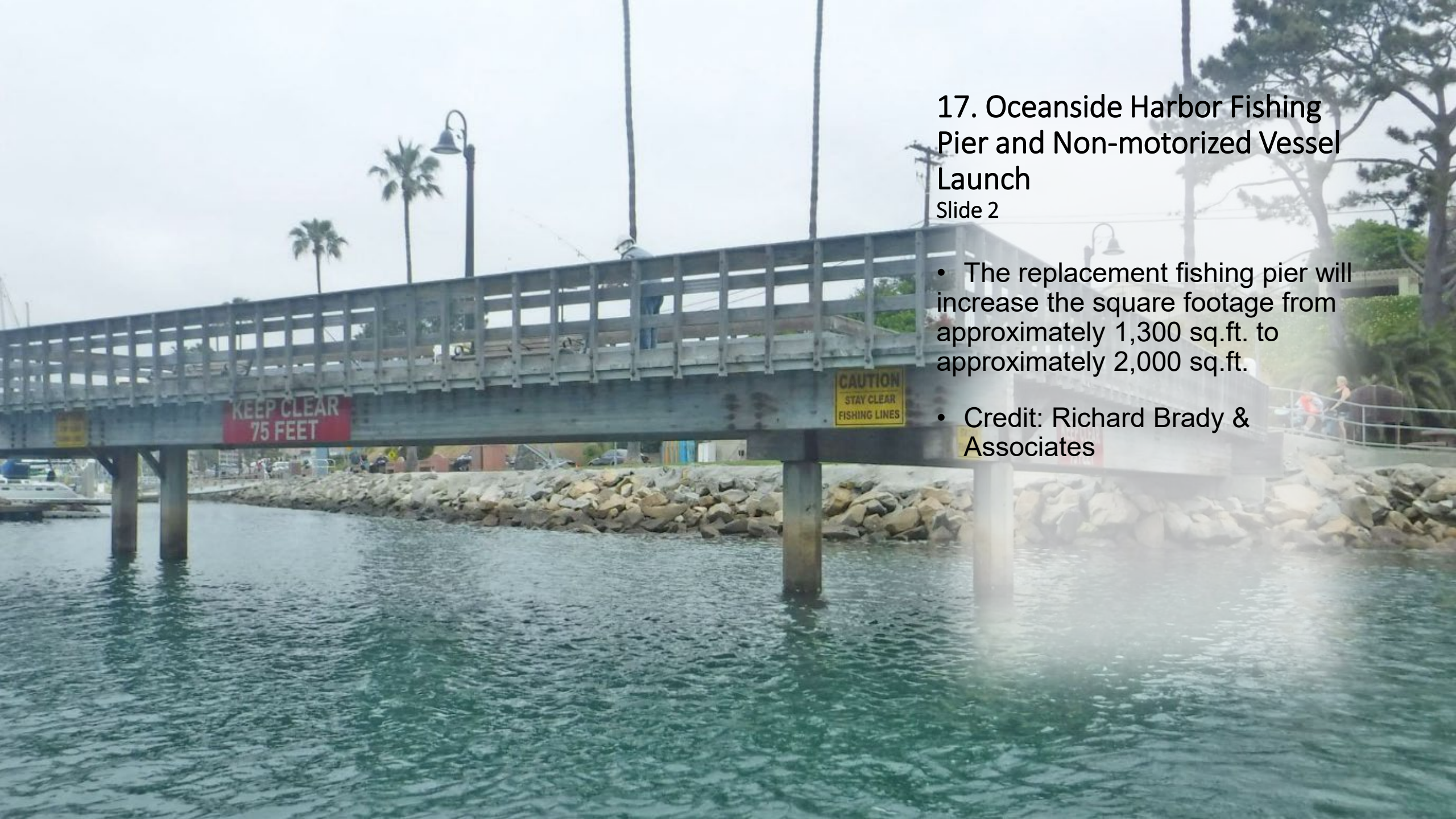
- Oceanside harbor fishing pier was closed in July 2021 due to advanced corrosion and structural deficiencies.
- Credit: City of Oceanside

17. Oceanside Harbor Fishing Pier and Non-motorized Vessel Launch

Slide 2

- The replacement fishing pier will increase the square footage from approximately 1,300 sq.ft. to approximately 2,000 sq.ft.

• Credit: Richard Brady & Associates

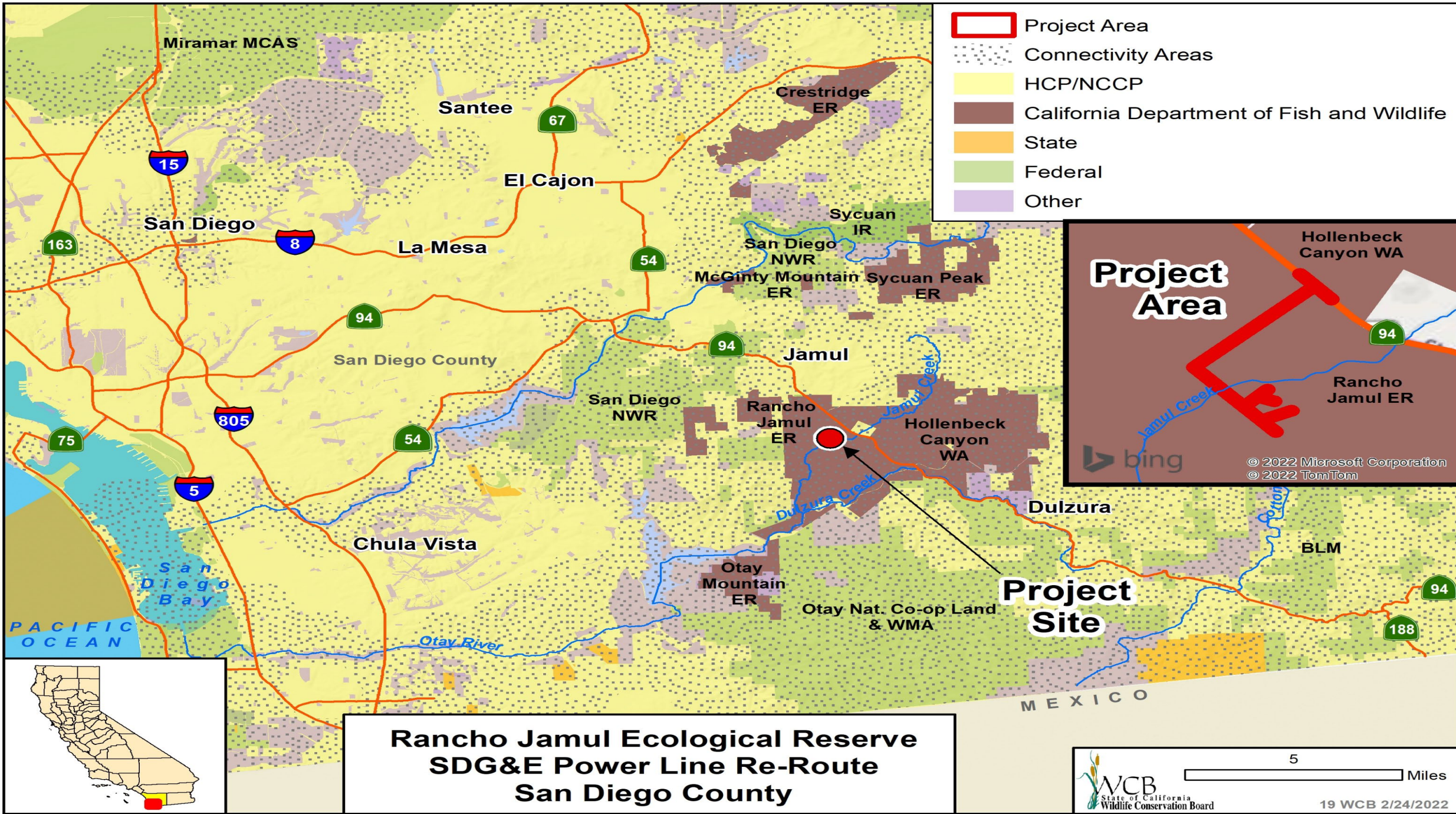




- The current project site has no ADA parking or restrooms.
- Credit: City of Oceanside

17. Oceanside Harbor Fishing Pier and Non-motorized Vessel Launch

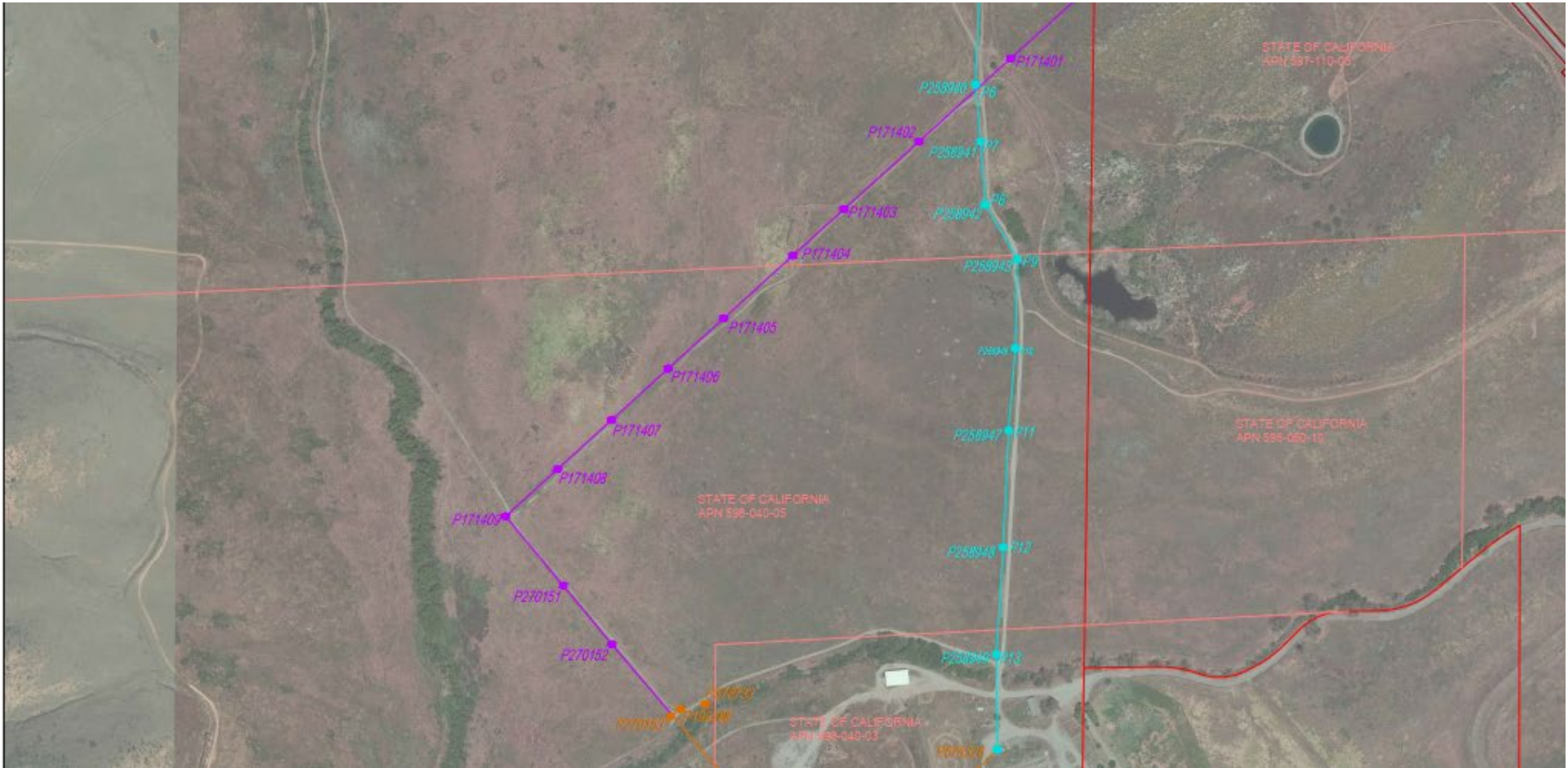
Slide 3



**Rancho Jamul Ecological Reserve
SDG&E Power Line Re-Route
San Diego County**

MAP LEGEND

- = NEW FACILITIES
- = EXISTING FACILITIES TO REMAIN
- = EXISTING FACILITIES TO BE REMOVED



An ariel map of the Property identifying where the easement is. The easement is shown in purple.

18. Rancho Jamul Ecological Reserve, SDG&E Power Line Re-Route

Slide 1



18. Rancho Jamul Ecological Reserve, SDG&E Power Line Re- Route

Slide 2

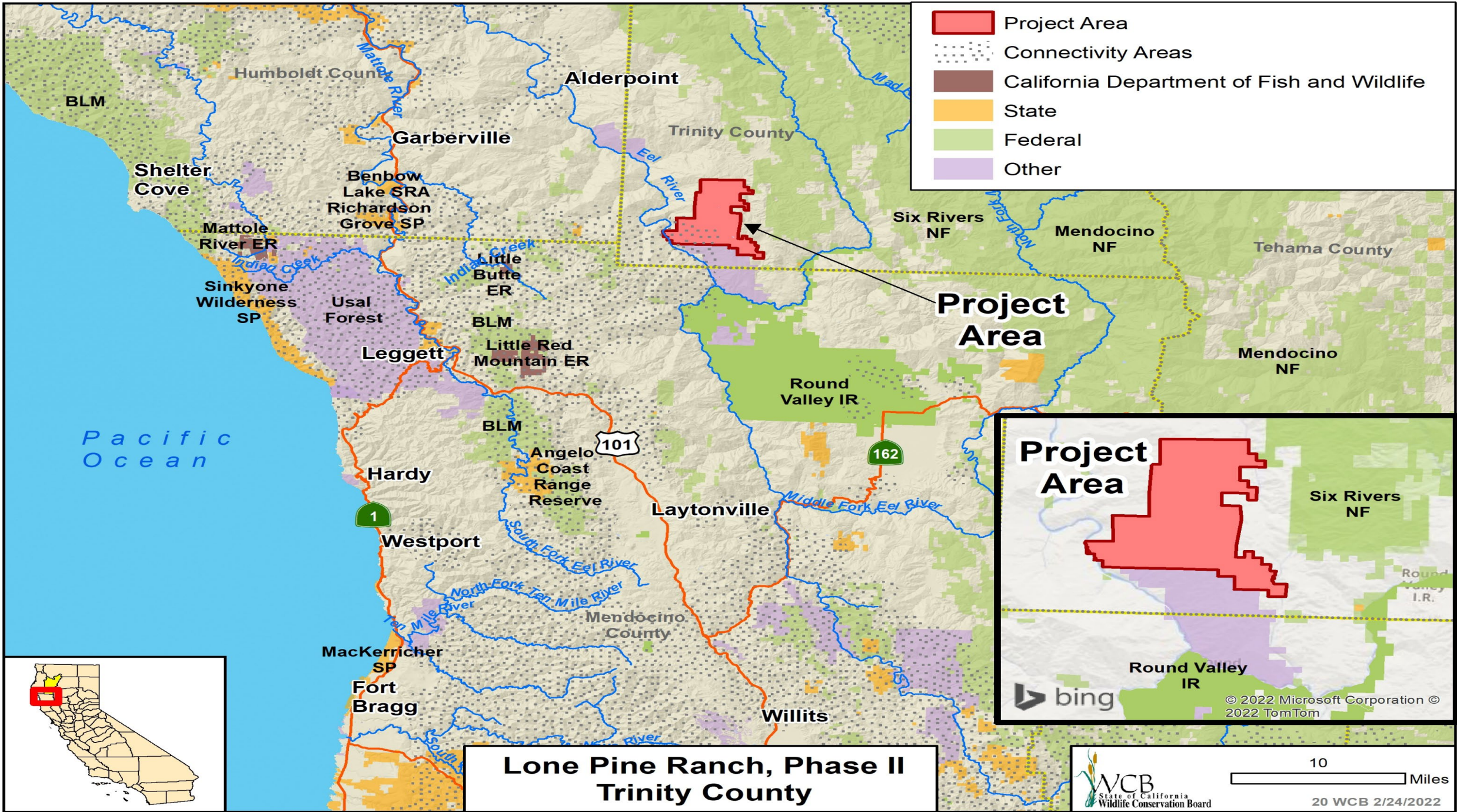
SDGE agreed to leaving the existing wooden power line poles in place so that raptors can utilize them as a perch

An aerial photograph of the Rancho Jamul Ecological Reserve. The foreground is dominated by tall, dry grasses. In the middle ground, there is a cluster of several buildings, including a large, dark-roofed structure and several smaller white buildings. A dirt road or path winds through the area. In the background, there is a vast, flat, open field with scattered trees and a power line stretching across the horizon.

18. Rancho Jamul Ecological Reserve, SDG&E Power Line Re-Route

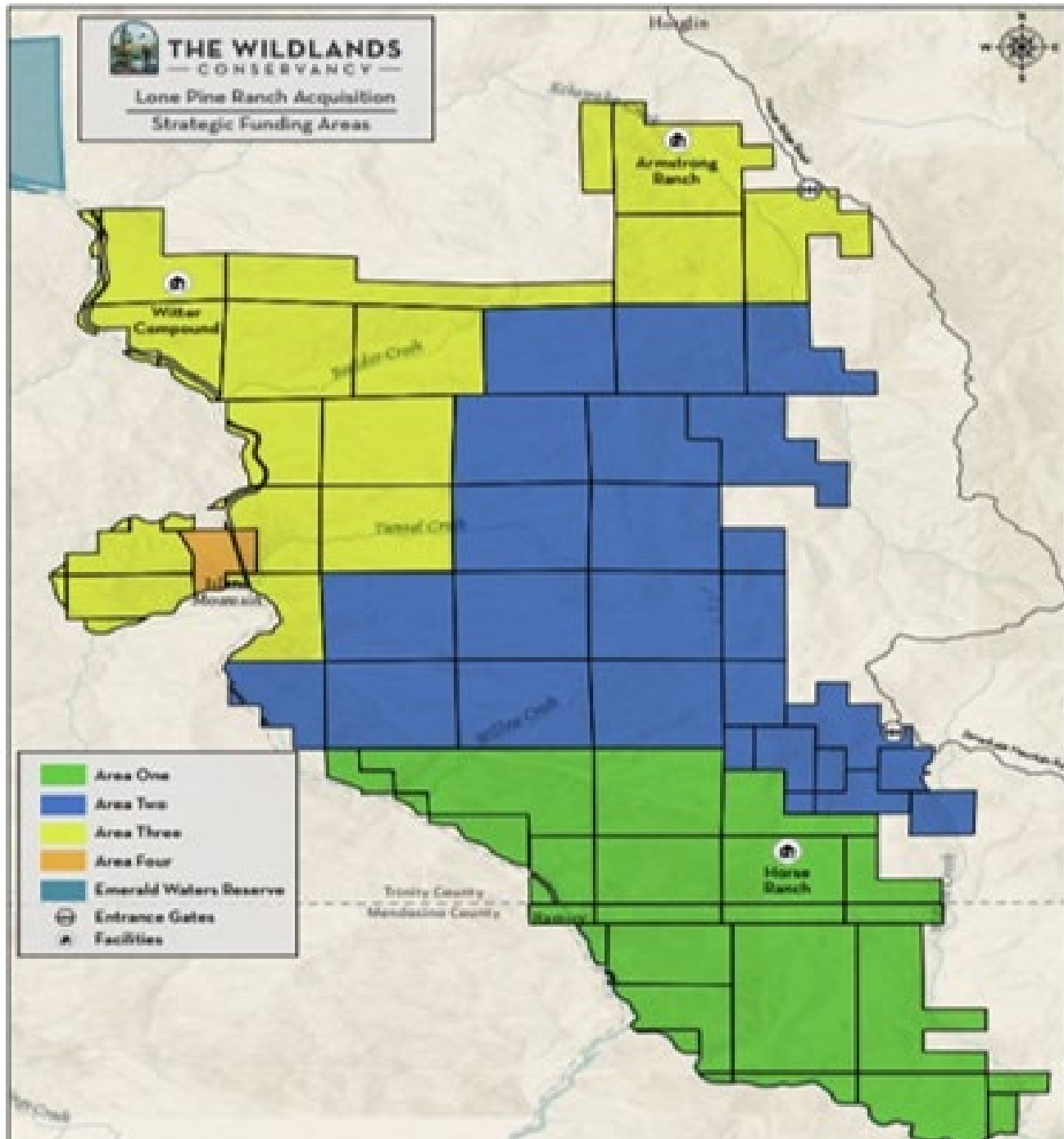
Slide 3

Rancho Jamul ER with the offices that are served by SDGE's powerline easement.



**Lone Pine Ranch, Phase II
Trinity County**

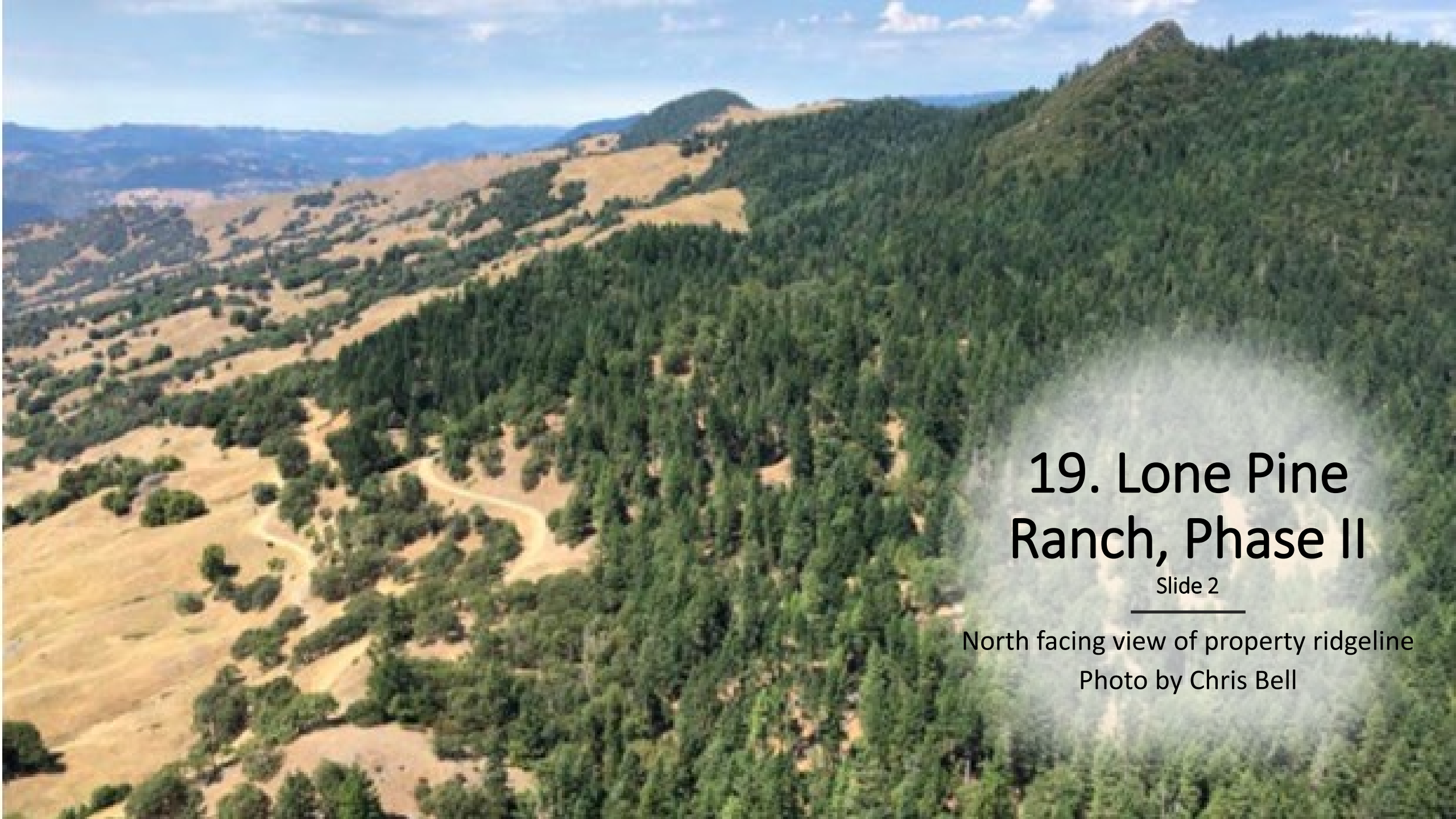




19. Lone Pine Ranch, Phase II

Slide 1

Property highlighted in blue



19. Lone Pine Ranch, Phase II

Slide 2

North facing view of property ridgeline


Photo by Chris Bell



19. Lone Pine Ranch, Phase II

Slide 3

- View of Property's Eel River frontage with Northwestern Pacific Railroad across on the lower hillside
- Photo by Chris Bell




19. Lone Pine Ranch, Phase II

Slide 4

Hillside overview of the property

Photo by Chris Bell



19. Lone Pine Ranch, Phase II

Slide 5

Upper meadows on the property

Photo by Chris Bell

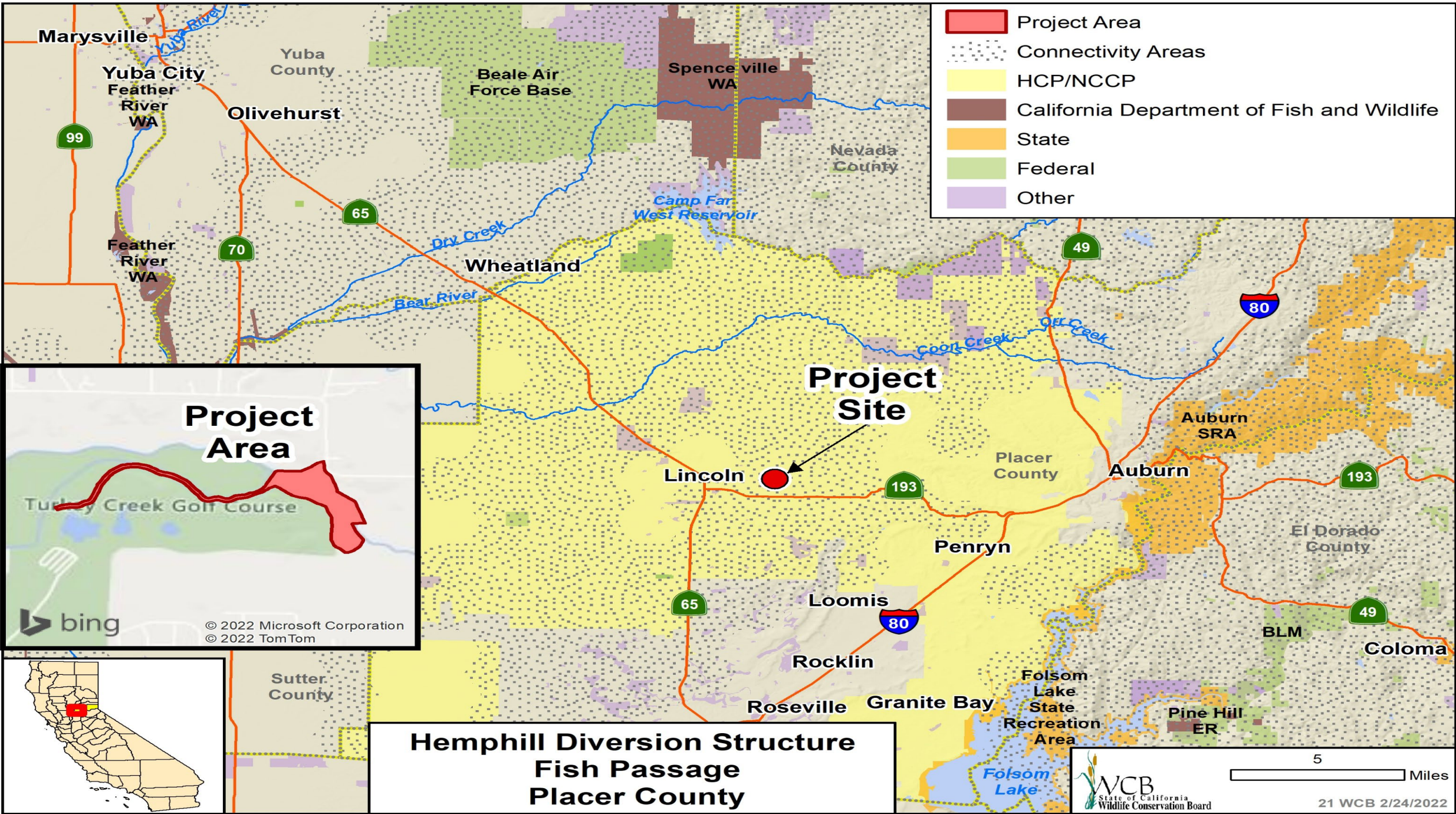
An aerial photograph of Lone Pine Ranch. The image shows a wide valley with a river (the Eel River) flowing through it. The left side of the valley is a steep, dry hillside with sparse green trees and large areas of light brown, sandy soil. The right side of the valley is a steeper, more densely forested hillside with thick green trees. In the background, there are more hills and mountains under a clear blue sky with a few wispy clouds.

19. Lone Pine Ranch, Phase II

Slide 6

Eel river along the southwestern
edge of the property

Photo by Chris Bell



- Project Area
- Connectivity Areas
- HCP/NCCP
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Hemphill Diversion Structure
Fish Passage
Placer County**



20. Hemphill Diversion Structure Fish Passage

Slide 1

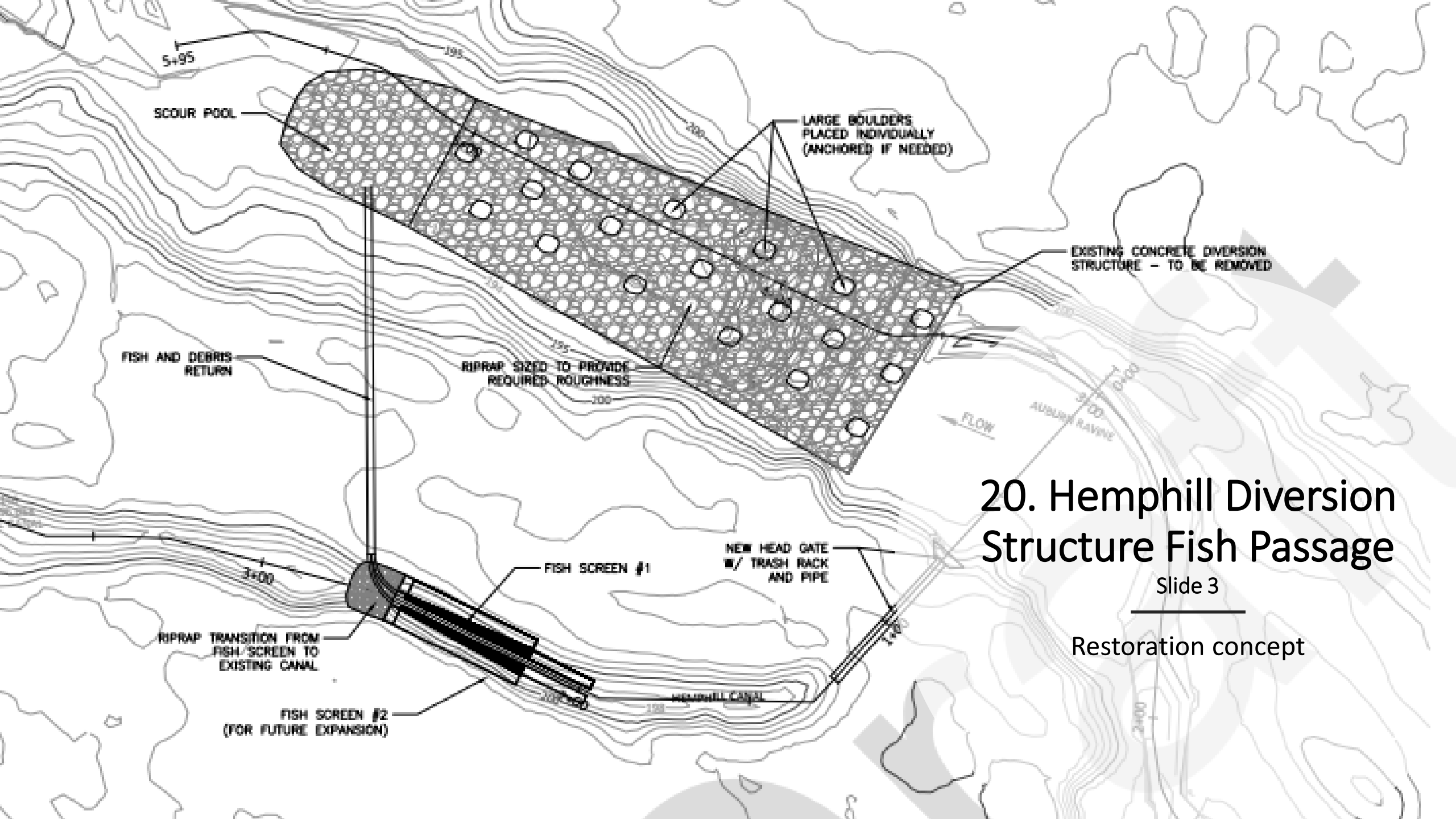
Hemphill Diversion Dam without flashboards



20. Hemphill Diversion Structure Fish Passage

Slide 2

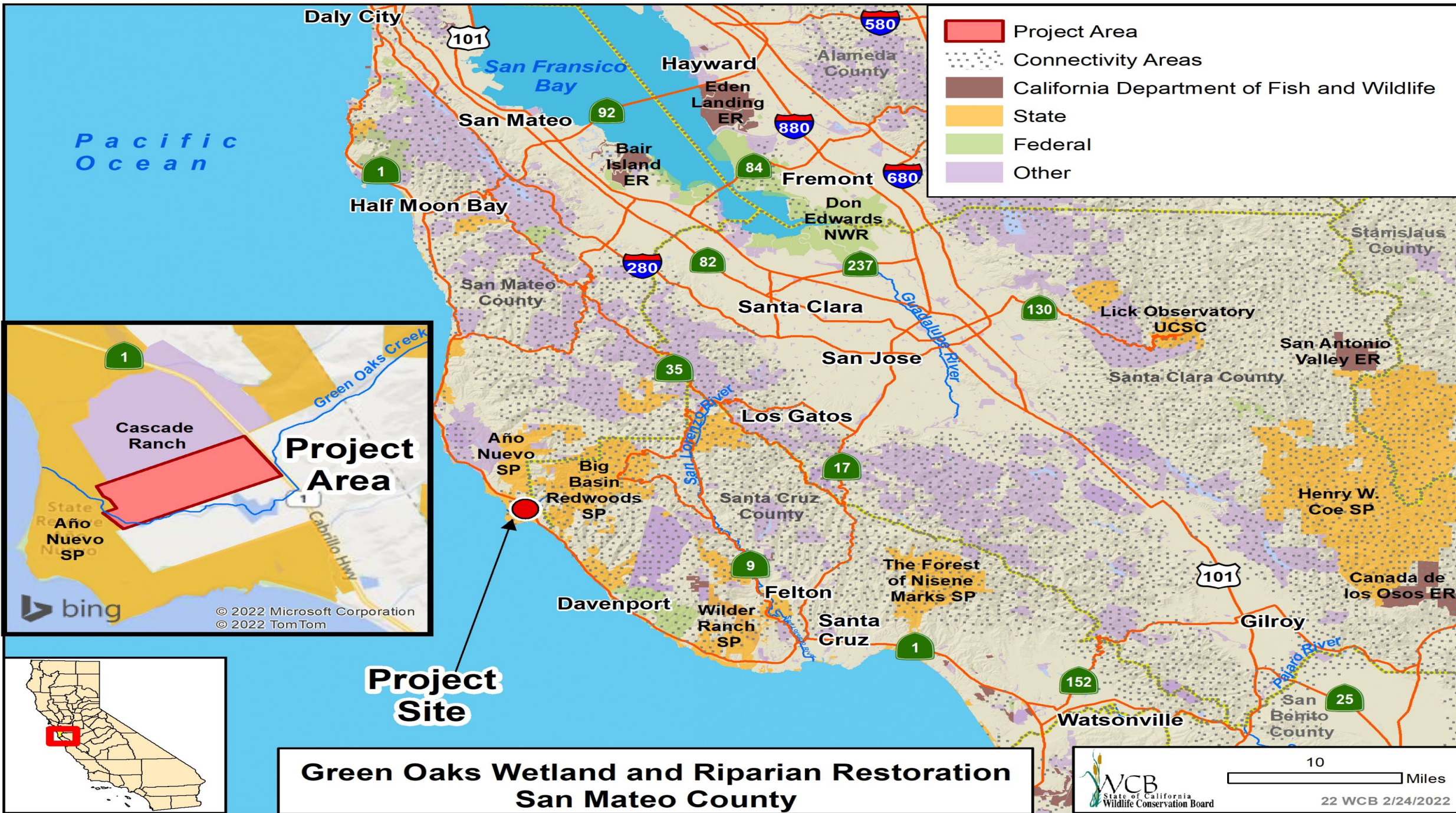
Hemphill Diversion Dam with flashboards



20. Hemphill Diversion Structure Fish Passage

Slide 3

Restoration concept



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other

Project Area

Cascade Ranch

Green Oaks Creek

San Mateo County

San Mateo

Half Moon Bay

1

bing

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Project Site

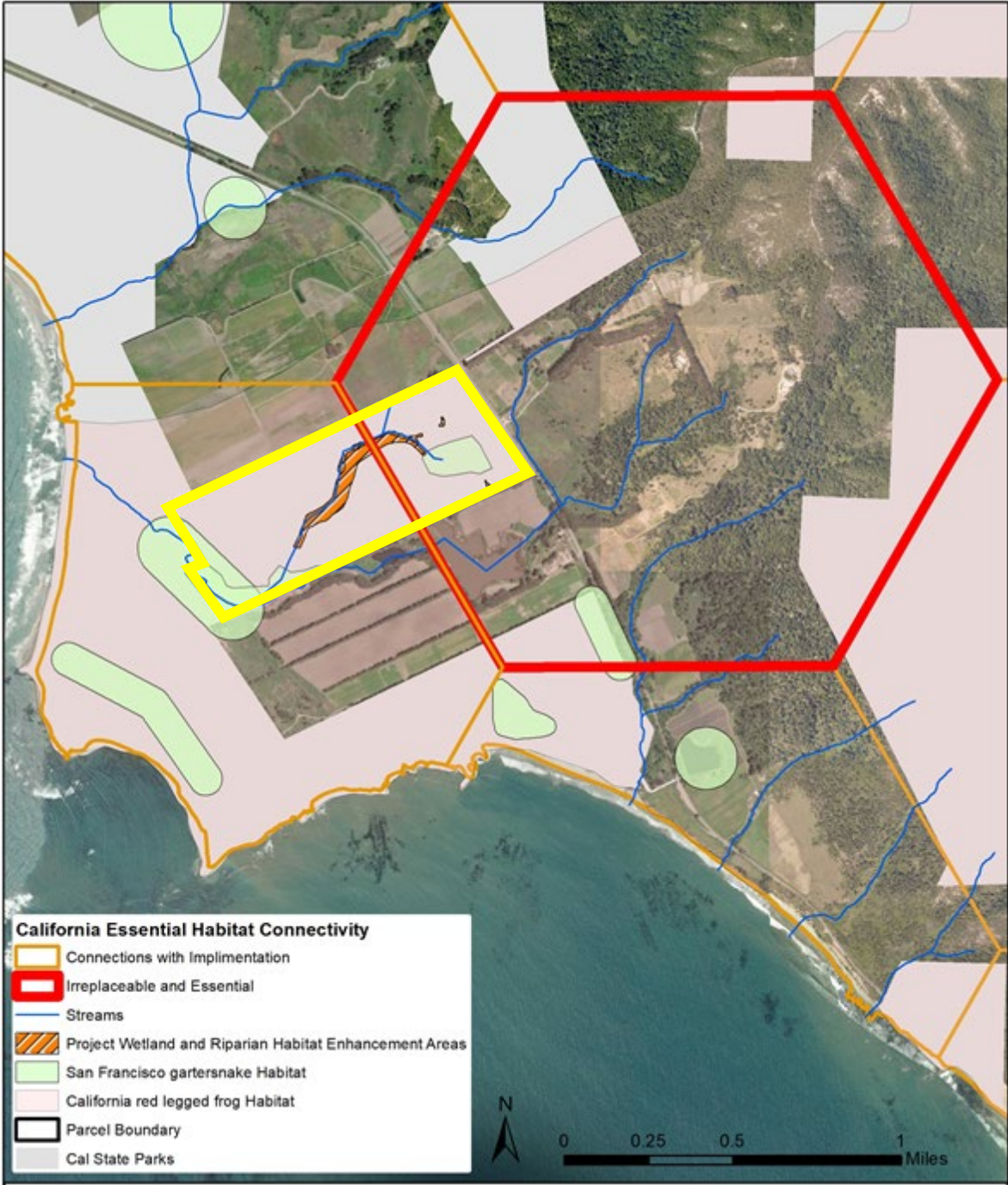
**Green Oaks Wetland and Riparian Restoration
San Mateo County**

10 Miles

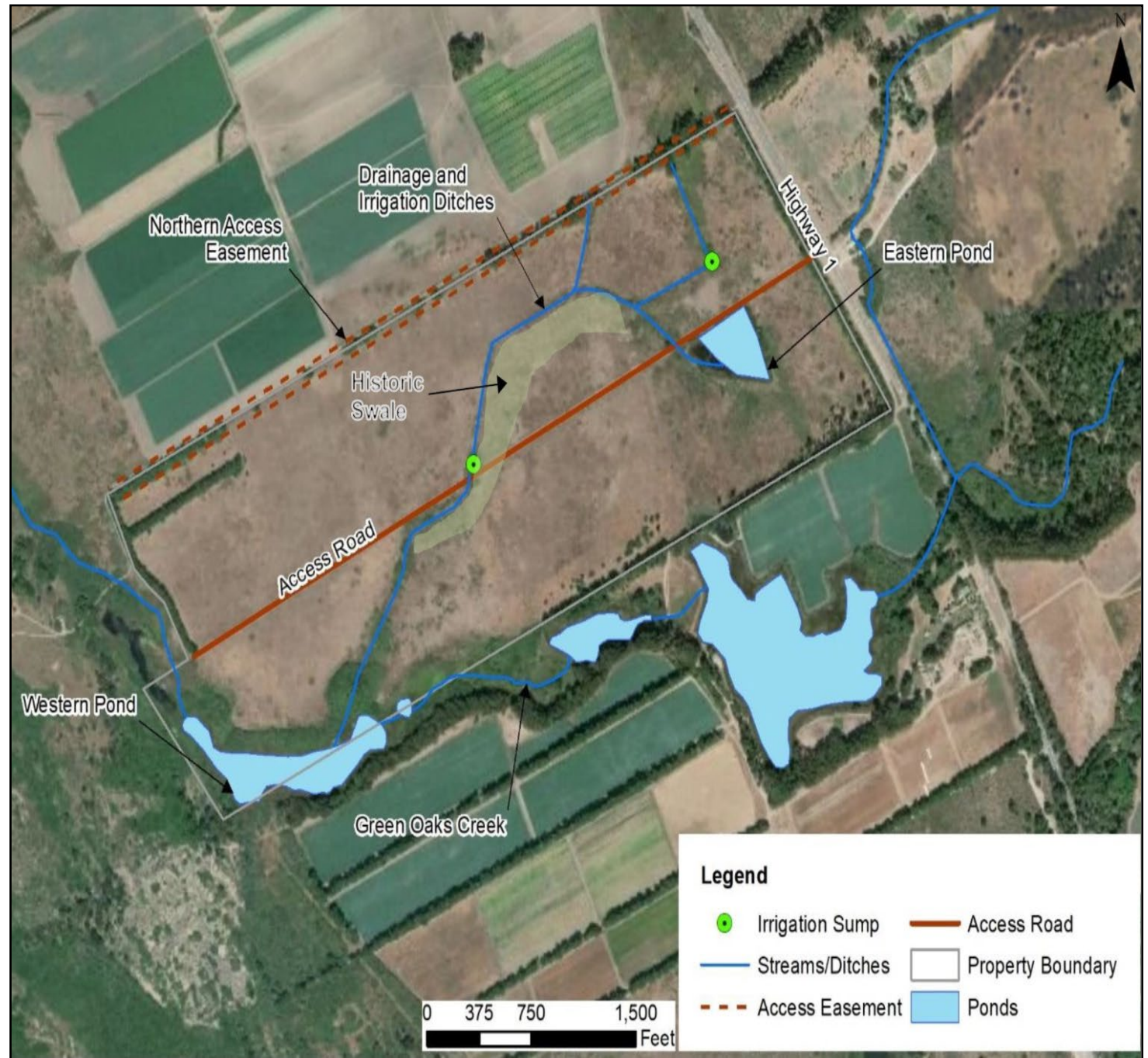
WCB
State of California
Wildlife Conservation Board

22 WCB 2/24/2022

21. Green Oaks Wetland and Riparian Restoration – Slide 1



21. Green Oaks Wetland and Riparian Restoration – Slide 2



PROJECT GOAL

Use the natural hydrology of the landscape to enhance aquatic and terrestrial habitat, while creating a self-sustaining system.

PRIMARY OBJECTIVES

- Restore natural sheet flow to support historic riparian, wet meadow, and seasonal wetland habitats
- Enhance habitat for native flora and fauna with focus on San Francisco garter snake and California red-legged frog
- Reduce the need for human intervention

21. Green Oaks Wetland and Riparian Restoration – Slide 3



PROJECT MANAGEMENT

Construction monitoring of sensitive biological and cultural resources
Implementation of Stormwater Pollution and Prevention Plan

SITE PREP

Mobilization/de-mobilization, delineation of staging and stockpile areas, clearing and grubbing, installation of best management practices, and winterization between phases.

PHASE 1

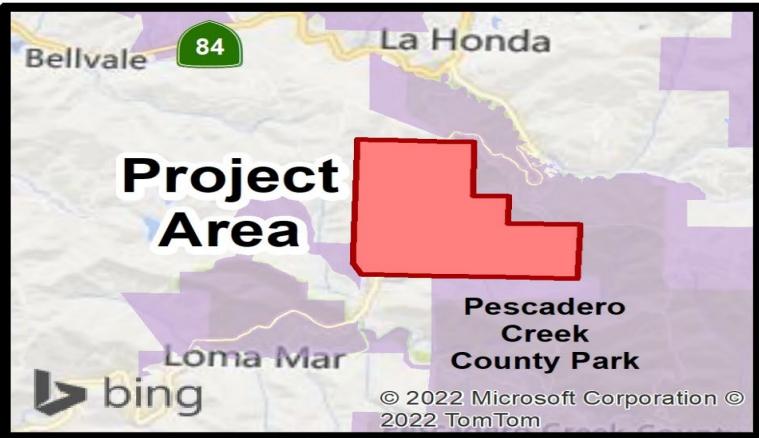
- Remove eastern portion of pond berm and excavate open water enhancement areas
- Install temporary pond overflow
- Complete agricultural ditch network treatments
- Install 7 log check dams
- Remove farming infrastructure and debris
- Remove portion of access road
- Overseed 11.8 acres
- Install 430 willow stakes and 1,700 native plant plugs

PHASE 2

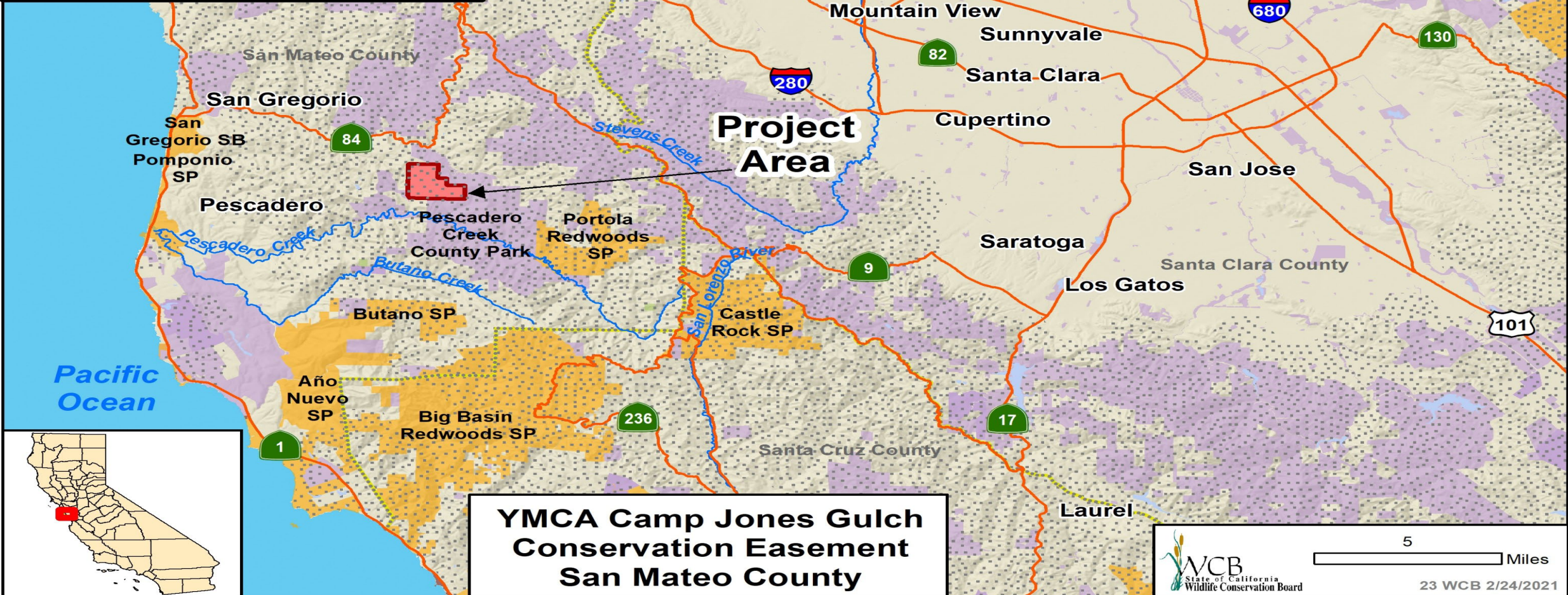
- Lower remainder of pond berms
- Widen top of pond berm for SFGS basking habitat
- Create permanent pond overflow
- Finish access road removal and grading
- Overseed 1.9 acres
- Install 30 willow stakes and 75 native plant plugs

PROJECT MONITORING

Monitor the response of vegetation, wildlife, and groundwater levels through annual site inspections, surveys, and photo monitoring.



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**YMCA Camp Jones Gulch
Conservation Easement
San Mateo County**



5 Miles

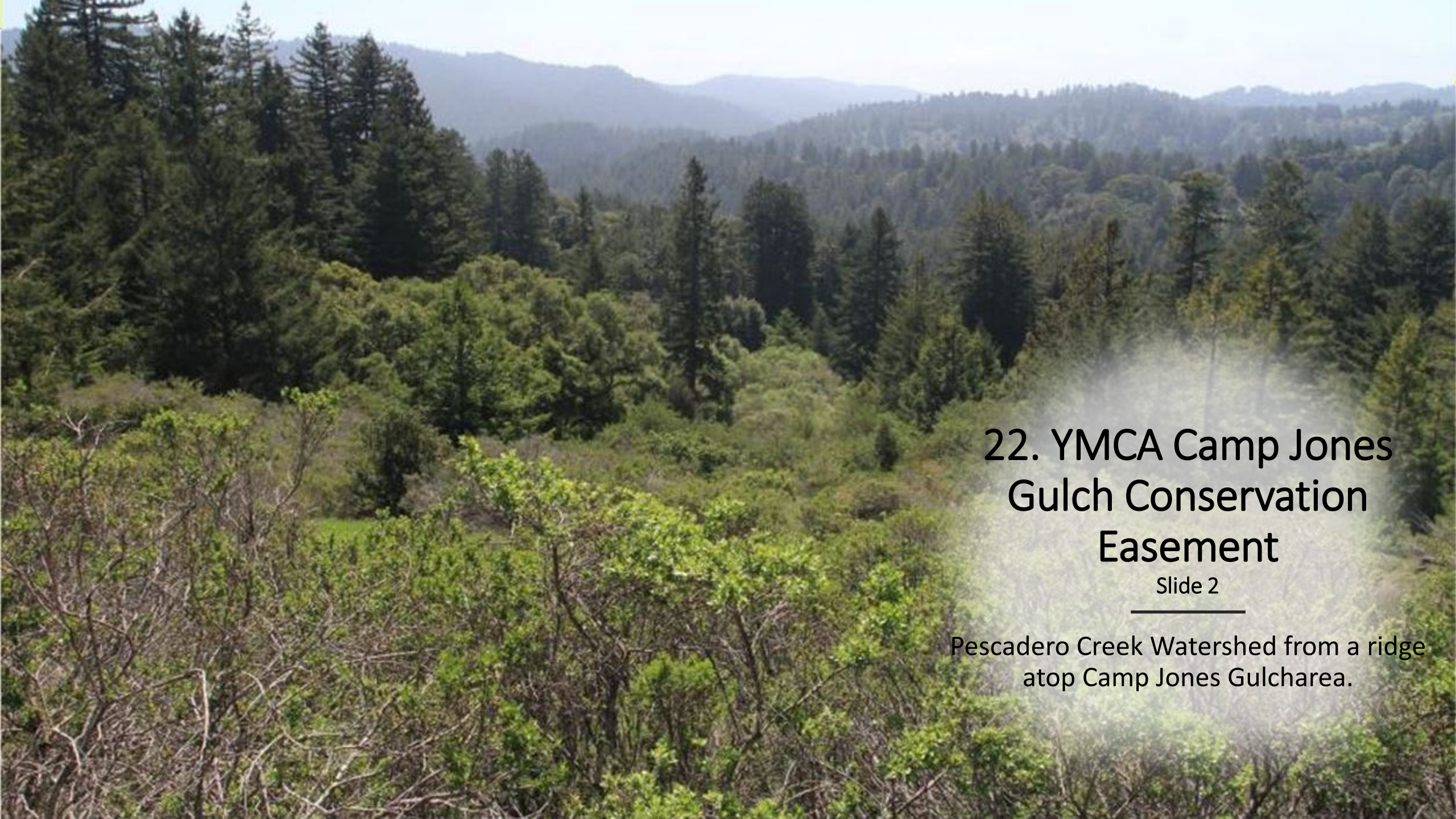




22. YMCA Camp Jones Gulch Conservation Easement

Slide 1


Jones Gulch Creek on Camp Jones Gulch



22. YMCA Camp Jones Gulch Conservation Easement

Slide 2


Pescadero Creek Watershed from a ridge
atop Camp Jones Gulch area.



22. YMCA Camp Jones Gulch Conservation Easement

Slide 3

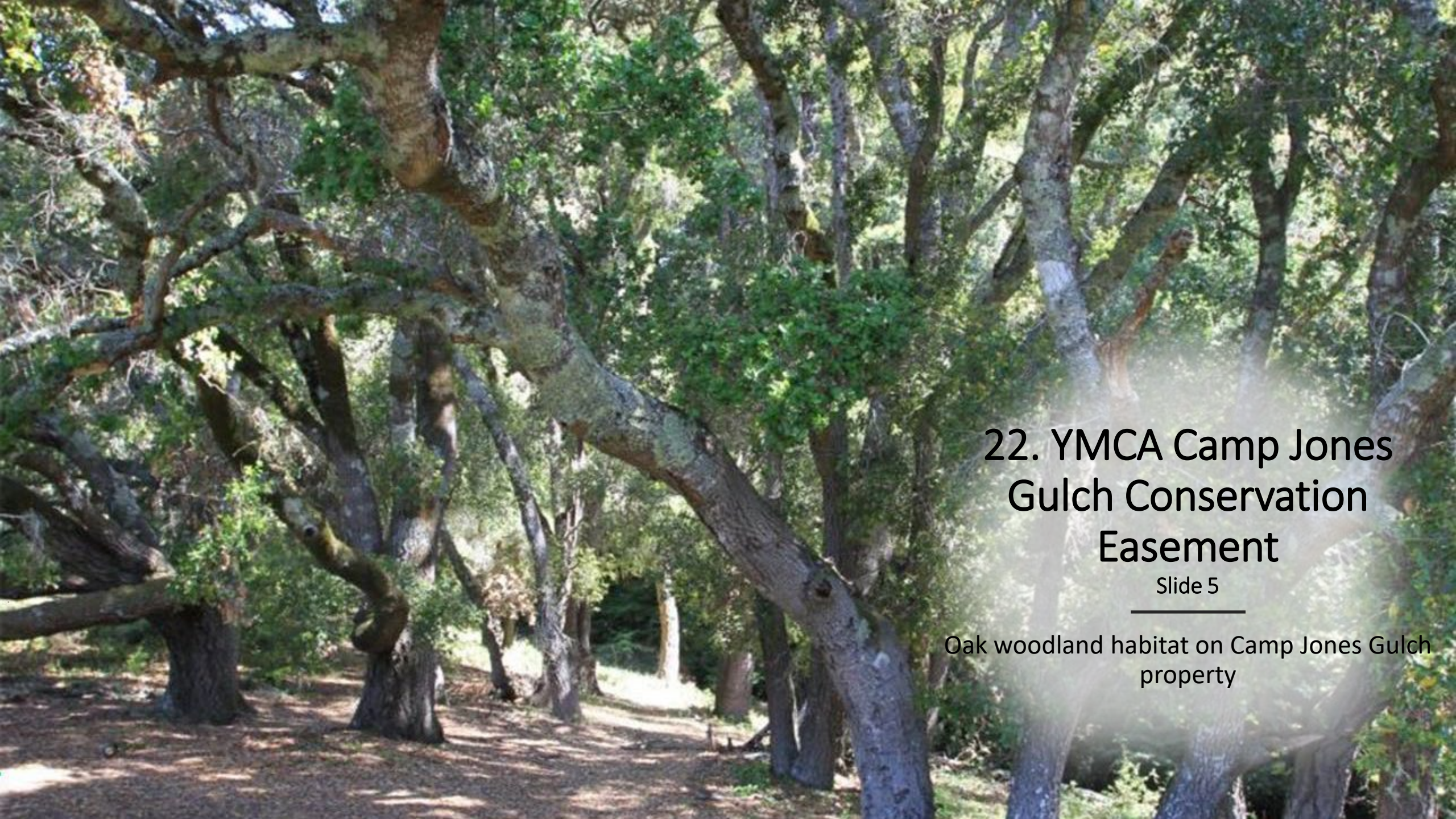
Old-growth redwoods in the Valley of
the Giants



22. YMCA Camp Jones Gulch Conservation Easement

Slide 4


Coastal prairie grassland within Camp Jones
Gulch

A photograph of an oak woodland habitat. The scene is filled with numerous oak trees of varying sizes, their trunks and branches creating a complex network. The ground is covered in a layer of dry, brown leaves and twigs, with dappled sunlight filtering through the dense canopy of green leaves. The overall atmosphere is serene and natural.

22. YMCA Camp Jones Gulch Conservation Easement

Slide 5

Oak woodland habitat on Camp Jones Gulch
property



22. YMCA Camp Jones Gulch Conservation Easement

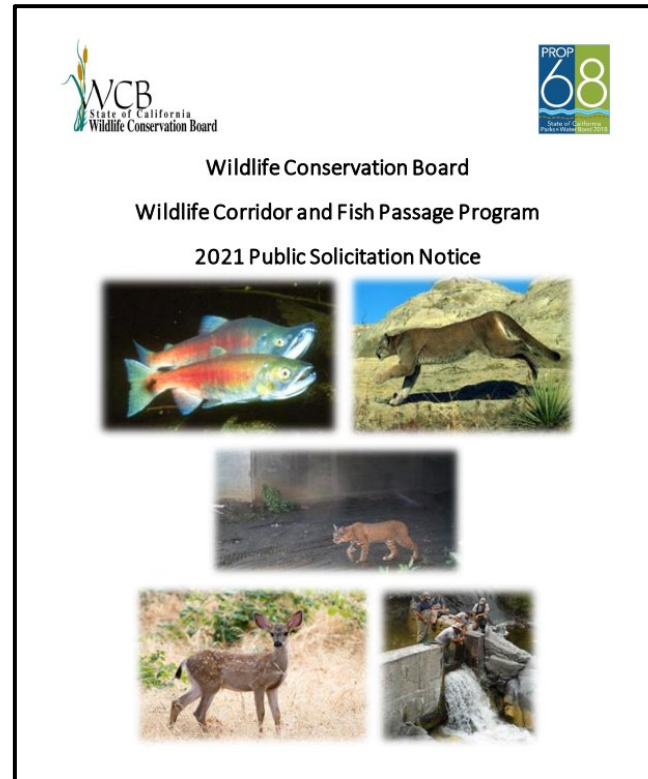
Slide 6

Pond at headwaters of Jones Gulch Creek
(flows into Pescadero Creek)

2021 Wildlife Corridor and Fish Passage Solicitation

Slide 1

- Third Solicitation
- Projects to construct, repair, modify, or remove transportation infrastructure or water resources infrastructure improving passage for wildlife or fish
- California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018 (Proposition 68)
- 2021 Budget Act



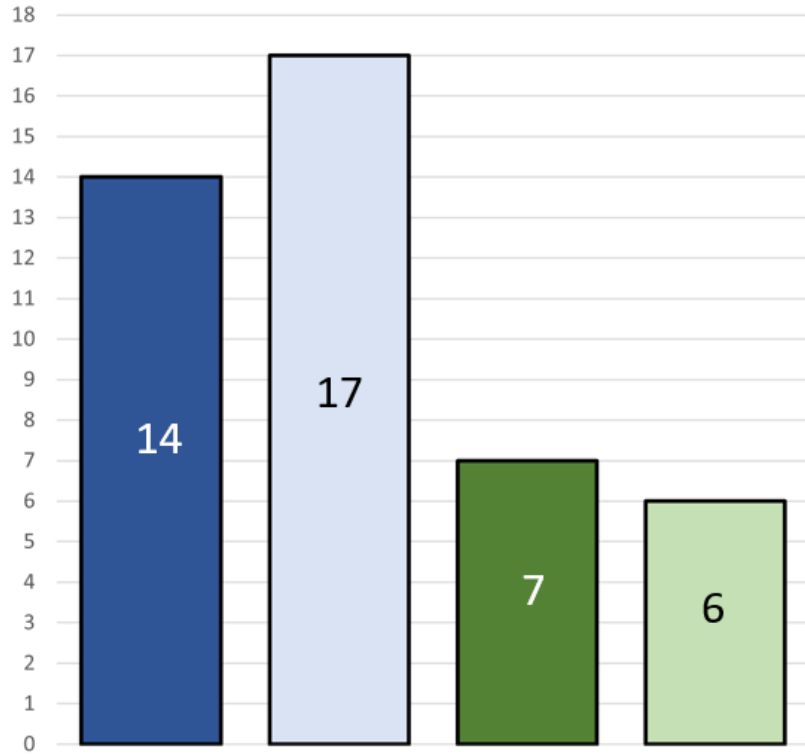
- Four Categories of Projects:
 - Wildlife Corridor – Implementation
 - Wildlife Corridor - Planning
 - Fish Passage – Implementation
 - Fish Passage - Planning
- Timeline
 - 09/07/2021: Solicitation Released
 - 10/05/2021: Pre-Applications Due
 - 11/19/2021: Full Applications Due
 - 12/17/2021: Final Selection

2021 Wildlife Corridor and Fish Passage Solicitation

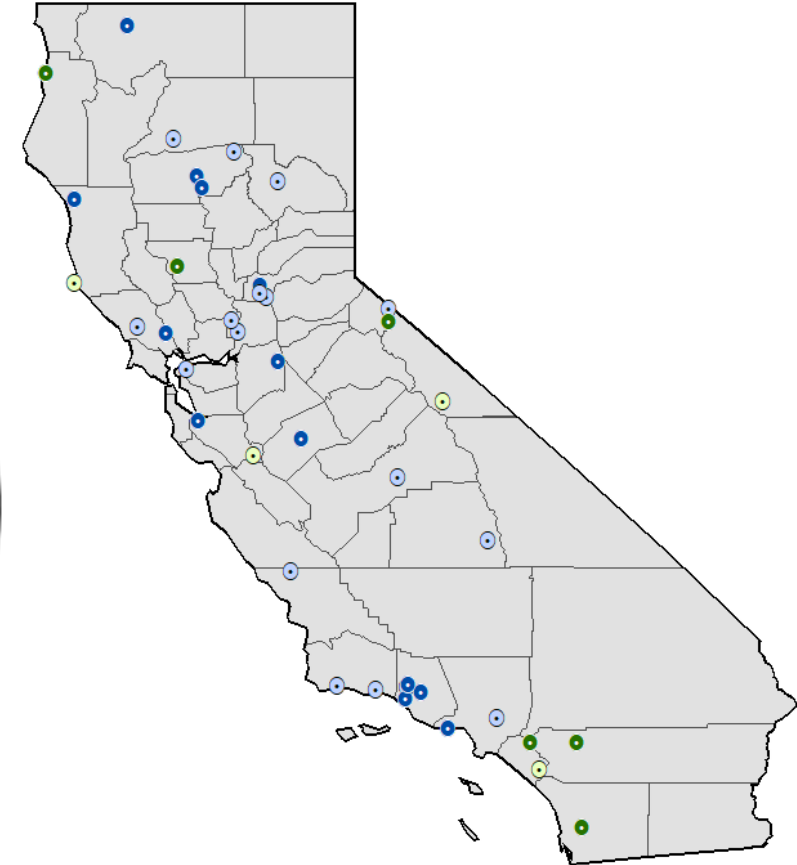
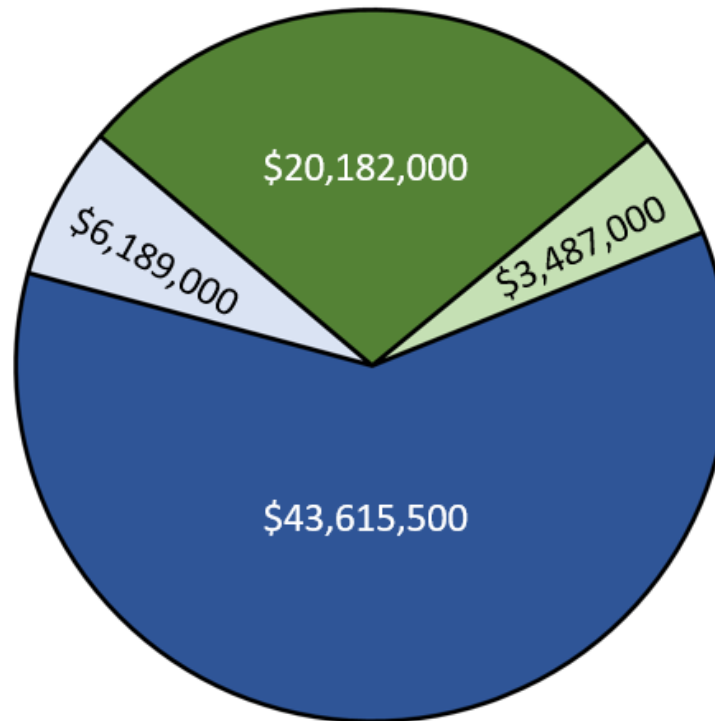
Slide 2

Pre-Application Response

44 Pre-Applications Received



\$73,473,500 in Requests



Fish Passage - Implementation

Fish Passage - Planning

Wildlife Corridor - Implementation

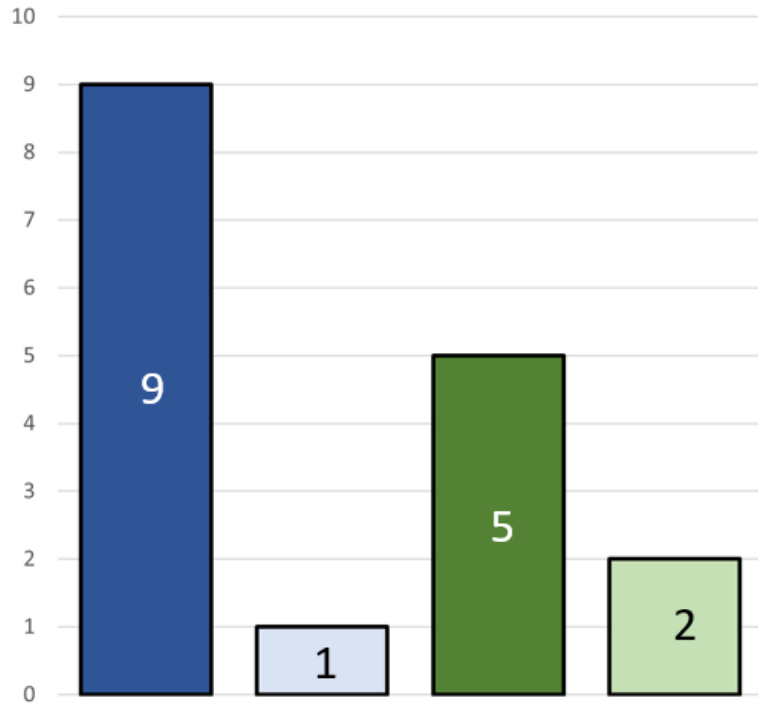
Wildlife Corridor - Planning

2021 Wildlife Corridor and Fish Passage Solicitation

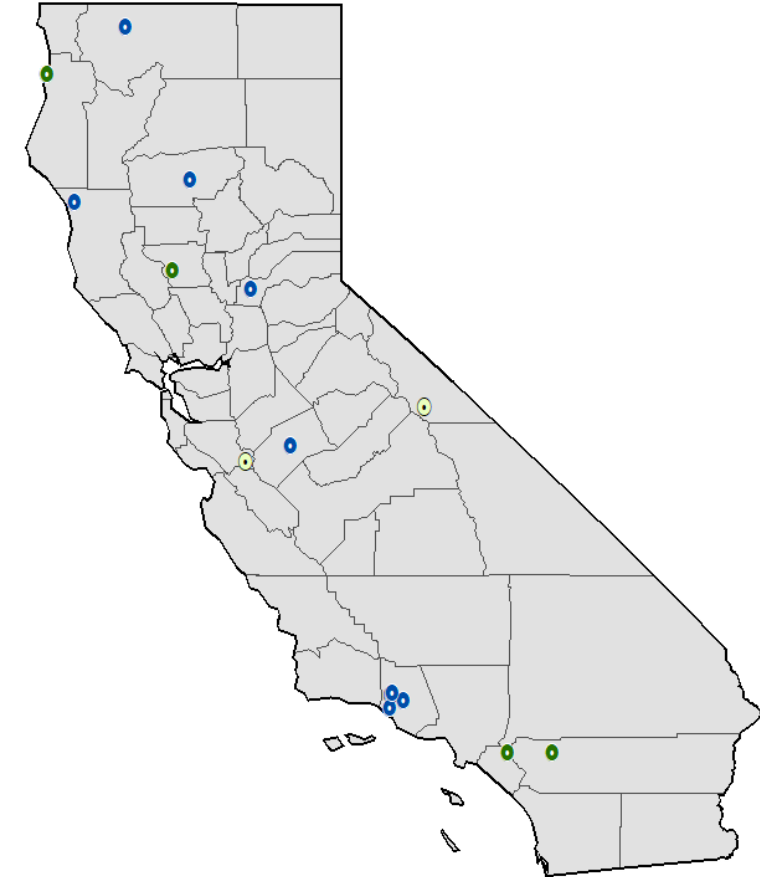
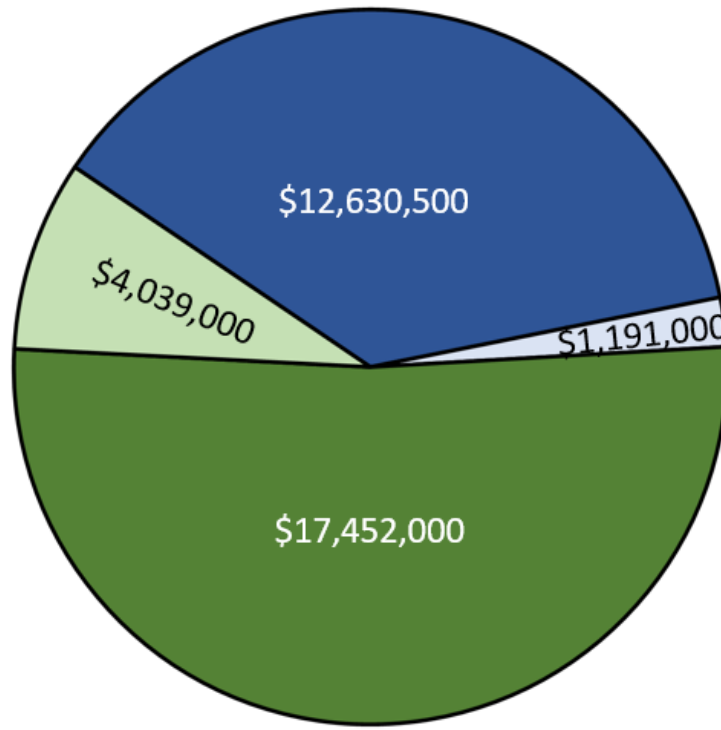
Slide 3

Full-Application Response

17 Full Applications Received



\$35,312,500 in Requests



Fish Passage - Implementation

Fish Passage - Planning

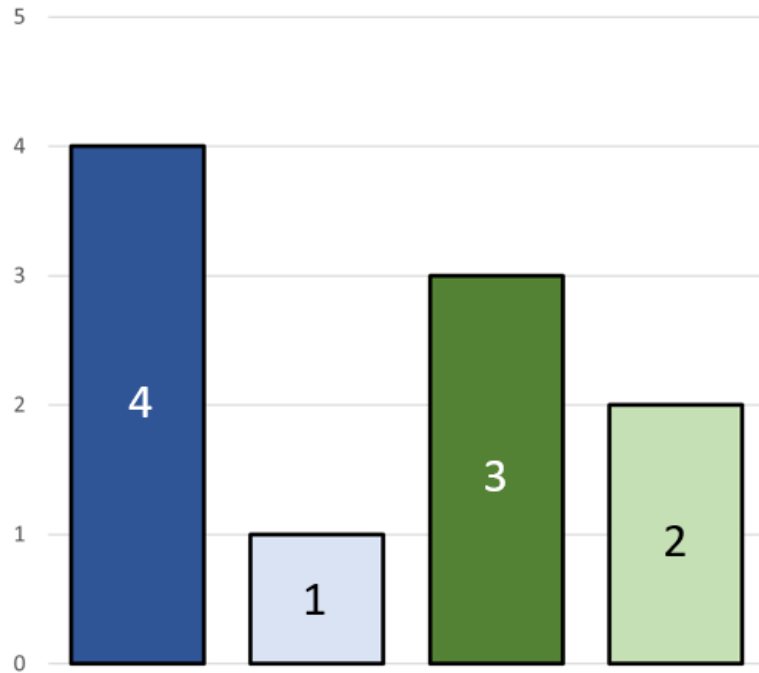
Wildlife Corridor - Implementation

Wildlife Corridor - Planning

2021 Wildlife Corridor and Fish Passage Solicitation

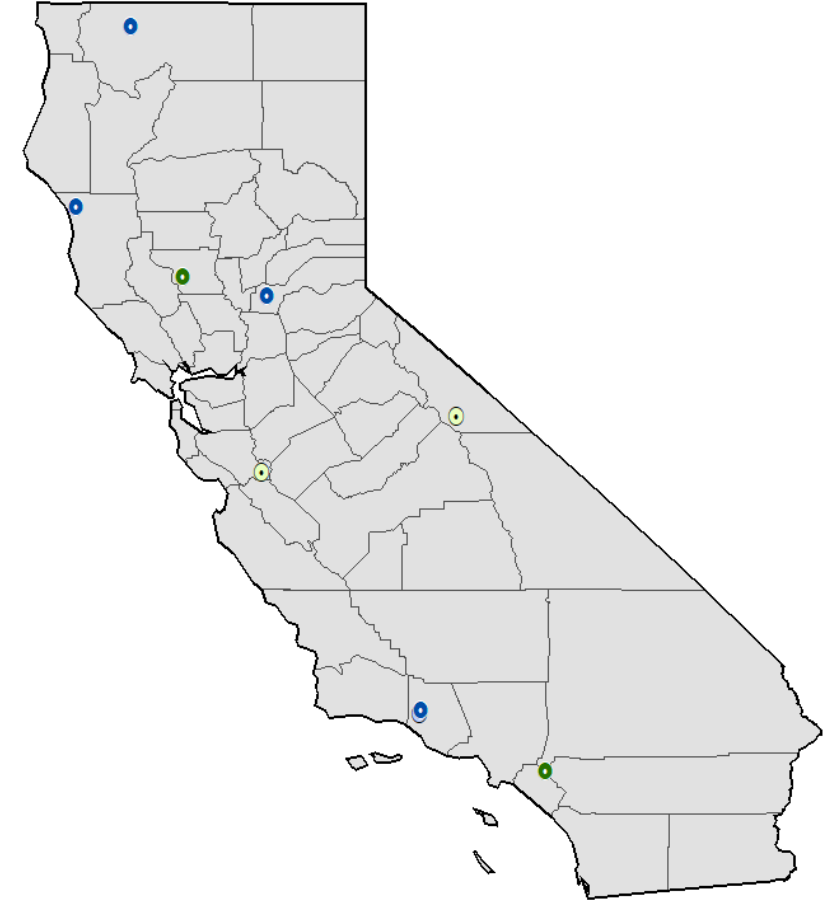
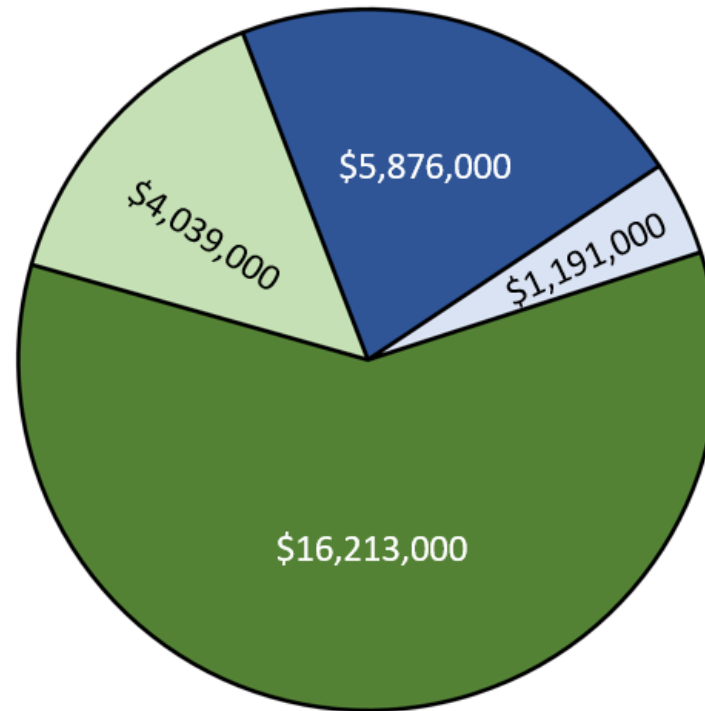
Slide 4

10 Projects Selected



Final Selection

\$27,319,000

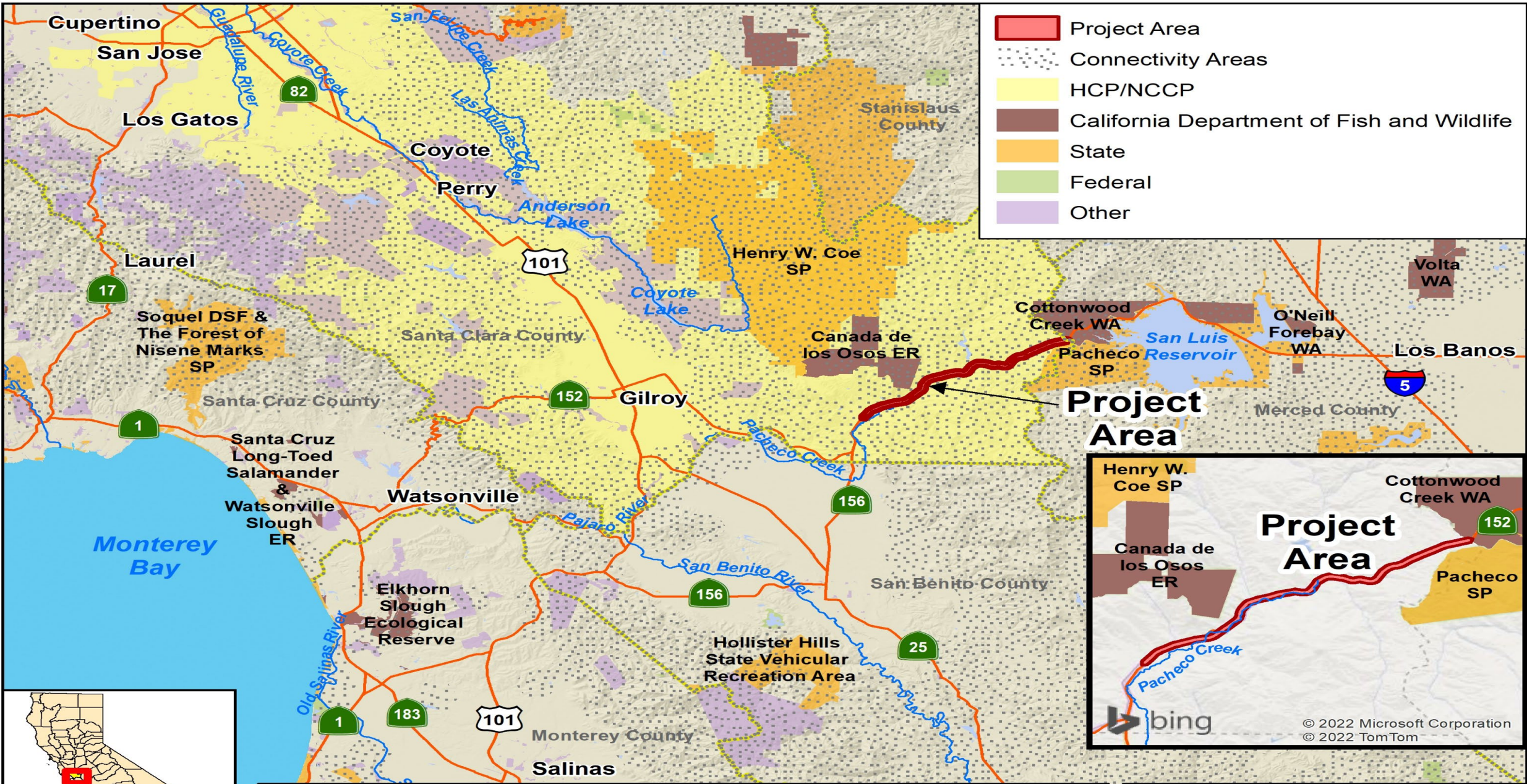


Fish Passage - Implementation

Fish Passage - Planning

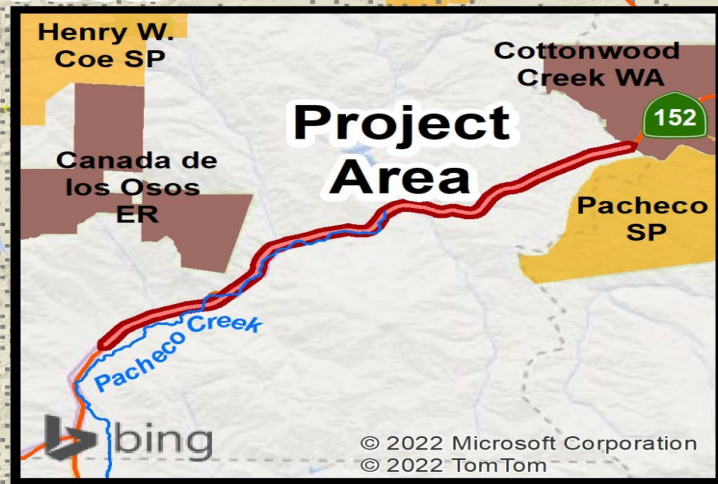
Wildlife Corridor - Implementation

Wildlife Corridor - Planning



- Project Area
- Connectivity Areas
- HCP/NCCP
- California Department of Fish and Wildlife
- State
- Federal
- Other

Project Area



**Pacheco Pass Wildlife Overcrossing Planning
Santa Clara County**



5 Miles

24 WCB 2/24/2022

23. Pacheco Pass Wildlife Overcrossing Planning

Slide 1

The Diablo Range

- Mostly open space
- Dominated by grasslands and oak woodlands
- Significant amount of riparian and seasonal wetland habitats

Several protected areas

- Fragmented

Impaired wildlife mobility

- Roads
- Urban encroachment



Photo: Oleg Alexandrov

23. Pacheco Pass Wildlife Overcrossing Planning

Slide 2

CDFW's 2020 Wildlife Movement Barrier Priorities list

Bay Area Critical Linkages Project

- Diablo Range to Inner Coast Linkage

Other Plans:

- Santa Clara Valley Habitat Conservation Plan
- California Essential Habitat Connectivity Plan
- Santa Clara County Regional Conservation Investment Strategy (draft)

SR-152 Pacheco Creek Wildlife Connectivity and Corridor Enhancement Project

- Approved by WCB in February 2021

Bay Area Critical Linkage



23. Pacheco Pass Wildlife Overcrossing Planning

Slide 3

Project Milestones



Photo: National Wildlife Federation



Photo: Washington State Department of Transportation Flickr

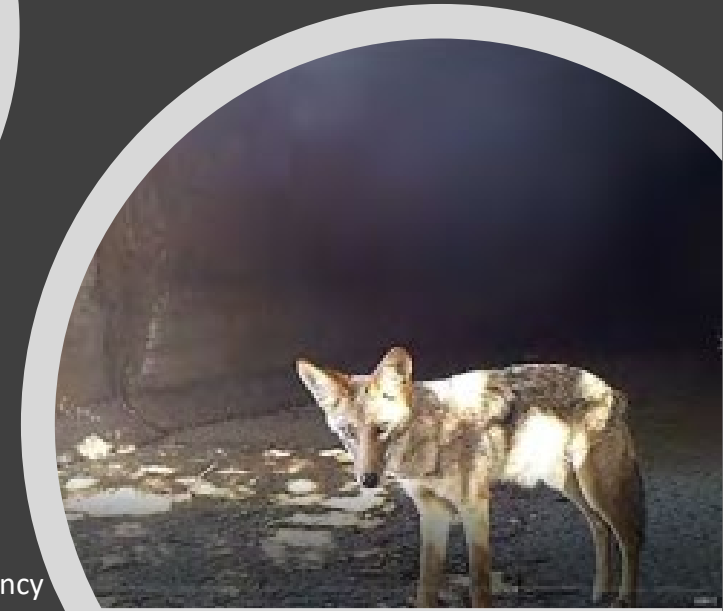
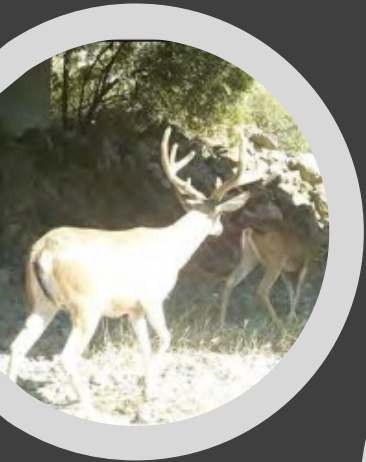
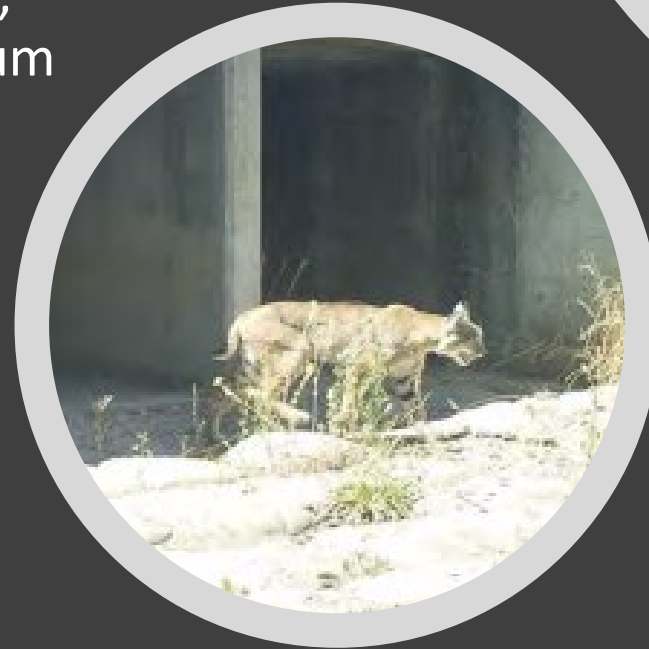
- Feasibility Study Report
 - Technical studies
- Up to four sites assessed for a wildlife overpass
- One site advanced to 35% design.
- A Project Initiation Report submitted to Caltrans.
- The 35% design used as the basis for CEQA clearance.
- 65% designs developed

23. Pacheco Pass Wildlife Overcrossing Planning

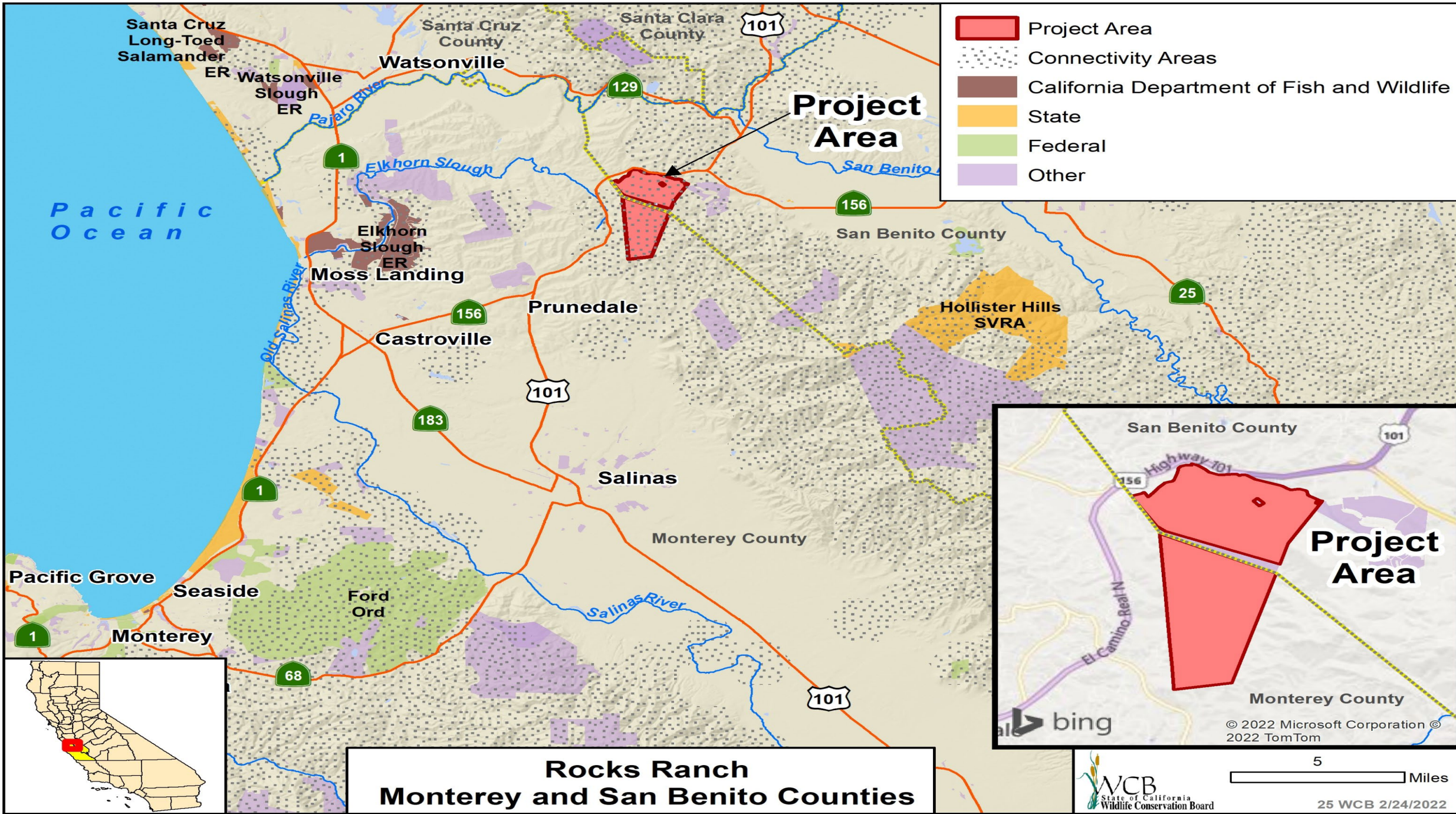
Slide 4

Pre-Project Monitoring

- 3,125 attempted and successful crossings
- Mountain lion, deer, badger, coyote, bobcat, gray fox, raccoon, striped skunk, and opossum
- The same species found during roadkill surveys

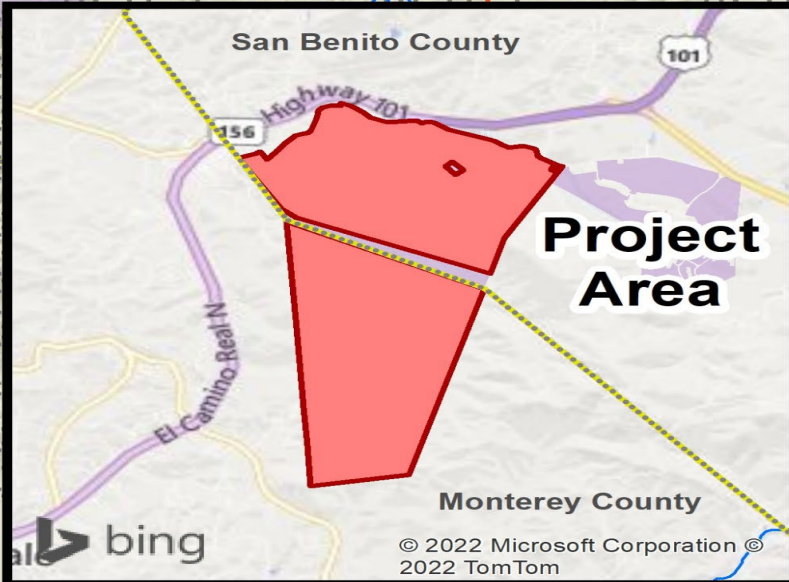


Photos: The Santa Clara Valley Habitat Agency



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other

**Rocks Ranch
Monterey and San Benito Counties**



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5
Miles





LAND
TRUST
OF SANTA CRUZ
— COUNTY —



24. Rocks Ranch

Slide 2

View from the center of Rocks Ranch looking toward the Santa Cruz Mountains and Star Creek Ranch (WCB funded project).

Paul Zaretsky Photography



24. Rocks Ranch

Slide 3

Grassy hillside

Paul Zaretsky Photography

A dirt path winds through a lush green forest. The trees are large and have thick, moss-covered trunks. The path is surrounded by tall grass and dense foliage. The scene is bright and vibrant, with sunlight filtering through the leaves.

24. Rocks Ranch

Slide 4

Rocks Ranch provides excellent refuge for wildlife with its mix of grasslands, freshwater wetlands, and extensive oak woodlands.

Paul Zaretsky
Photography



24. Rocks Ranch

Slide 5

View from Rocks Ranch looking towards
Freemont Peak State Park.

Paul Zaretsky Photography

An aerial photograph of a lush green valley. The landscape is characterized by rolling hills covered in vibrant green grass. Scattered throughout the valley are numerous trees of varying sizes and densities. A winding dirt road or path is visible, curving through the hills. In the lower right portion of the valley, there is a small, dark pond. The sky above is a clear, bright blue with a few wispy clouds. The overall scene is peaceful and scenic.

24. Rocks Ranch

Slide 6

San Benito County portion of Rocks Ranch.
900 rural residential homes were once
envisioned for the site.



25. Las Piletas Ranch

Slide 1

Natural lake within the Las Piletas Ranch
Property



25. Las Piletas Ranch

Slide 2

Bear track found near lake on property



25. Las Piletas Ranch

Slide 3

View of foothills and riparian corridor running through Property



25. Las Piletas Ranch

Slide 4

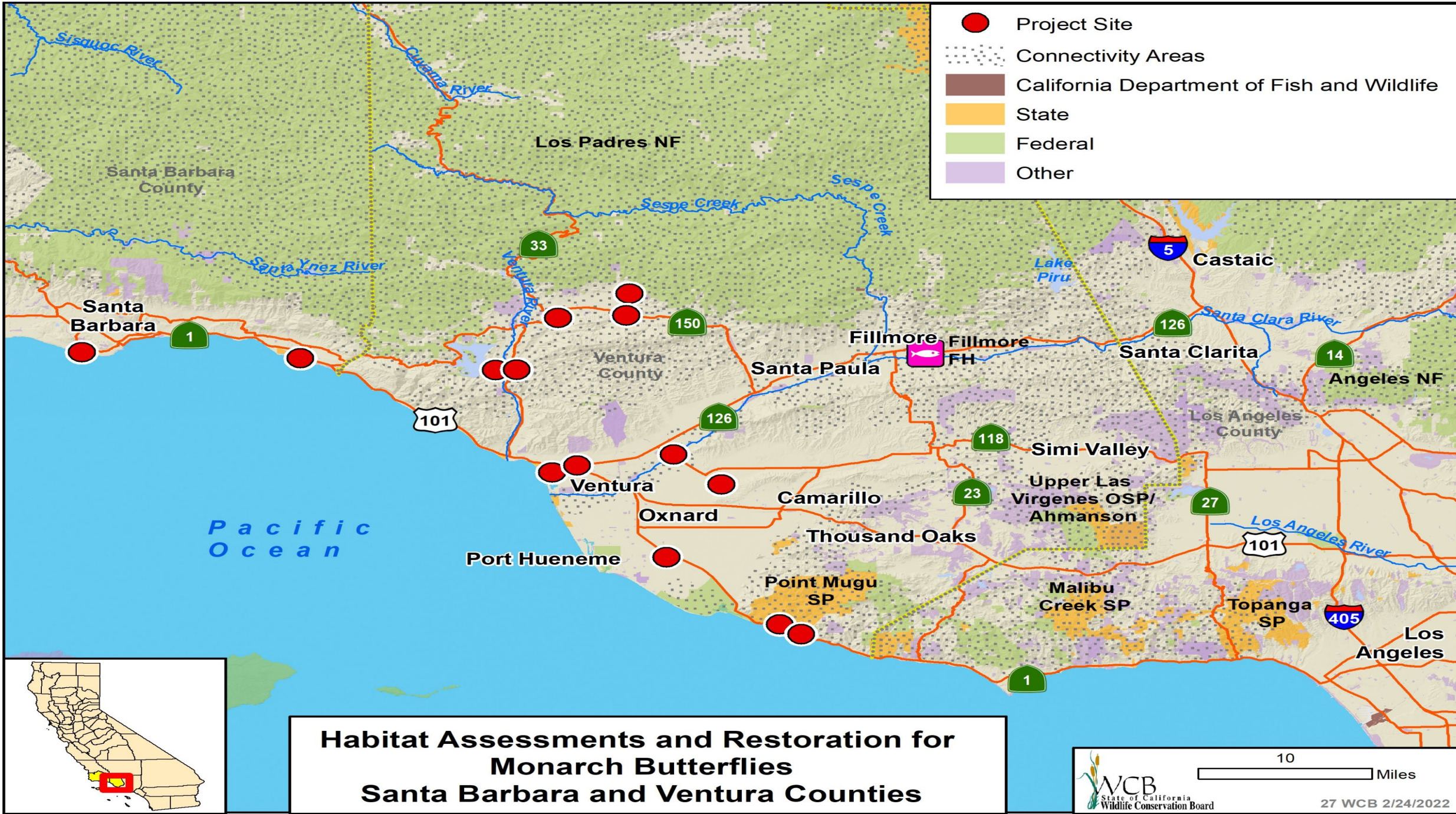
View of open grazing area and waterway habitat running throughout the property.



25. Las Piletas Ranch

Slide 5

Open draw and oaks interspersed
throughout Property.





26. Habitat Assessments and Restoration for Monarch Butterflies

Slide 1

26. Habitat Assessments and Restoration for Monarch Butterflies

Slide 2

Goal: Enhance and restore breeding, migratory and overwintering habitat for monarch butterflies and other pollinators

Objective: Develop and implement 13 Habitat Restoration and Management Plans (HMPs):

- Three HMPs already developed
- Create and begin implementing seven HMPs for breeding and migratory habitat sites
- Create and begin implementing HMPs for three overwintering sites
- Restore 11+ acres of breeding/migratory/overwintering habitat

Proposed Survey Area

Acreage = 3.81

34.464271, -119.176368

Proposed Survey Area

Acreage = 3.22

34.464271, -119.301035

Extent Map

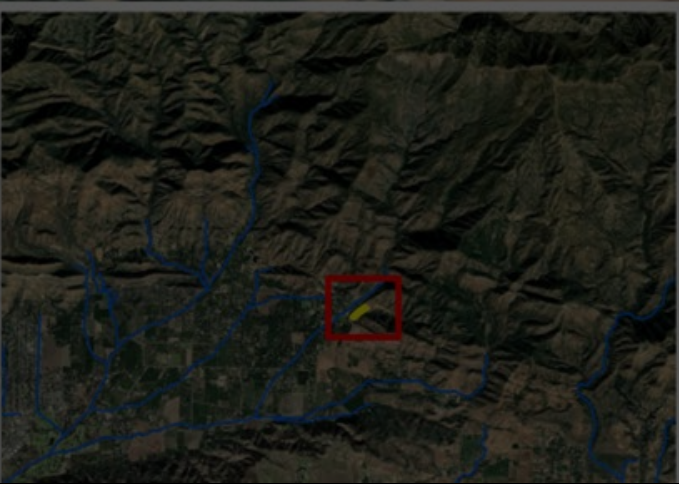
Area Currently Being Restored by VORCD

Proposed Breeding & Migratory

26. Habitat Assessments and Restoration for Monarch Butterflies

Slide 3

Extent Map



THATCHER CREEK

LION CANYON

26. Habitat Assessments and Restoration for Monarch Butterflies

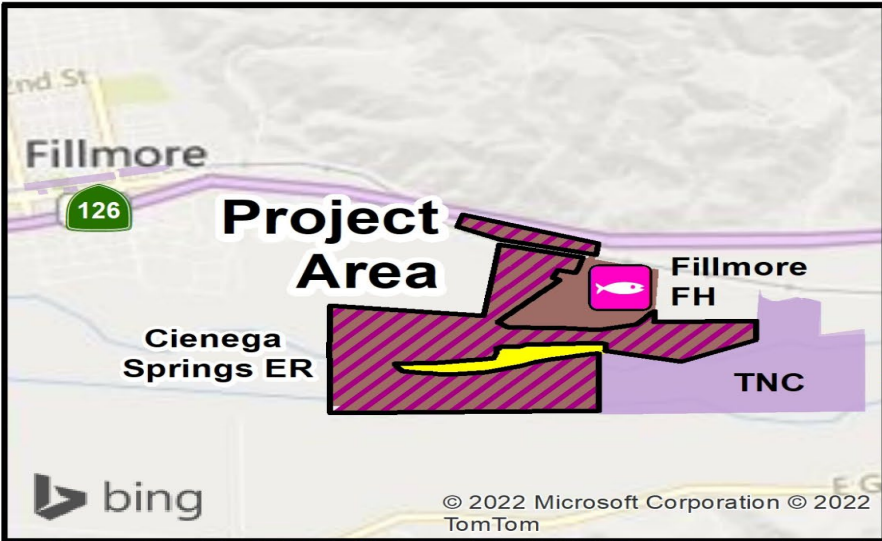
Slide 4



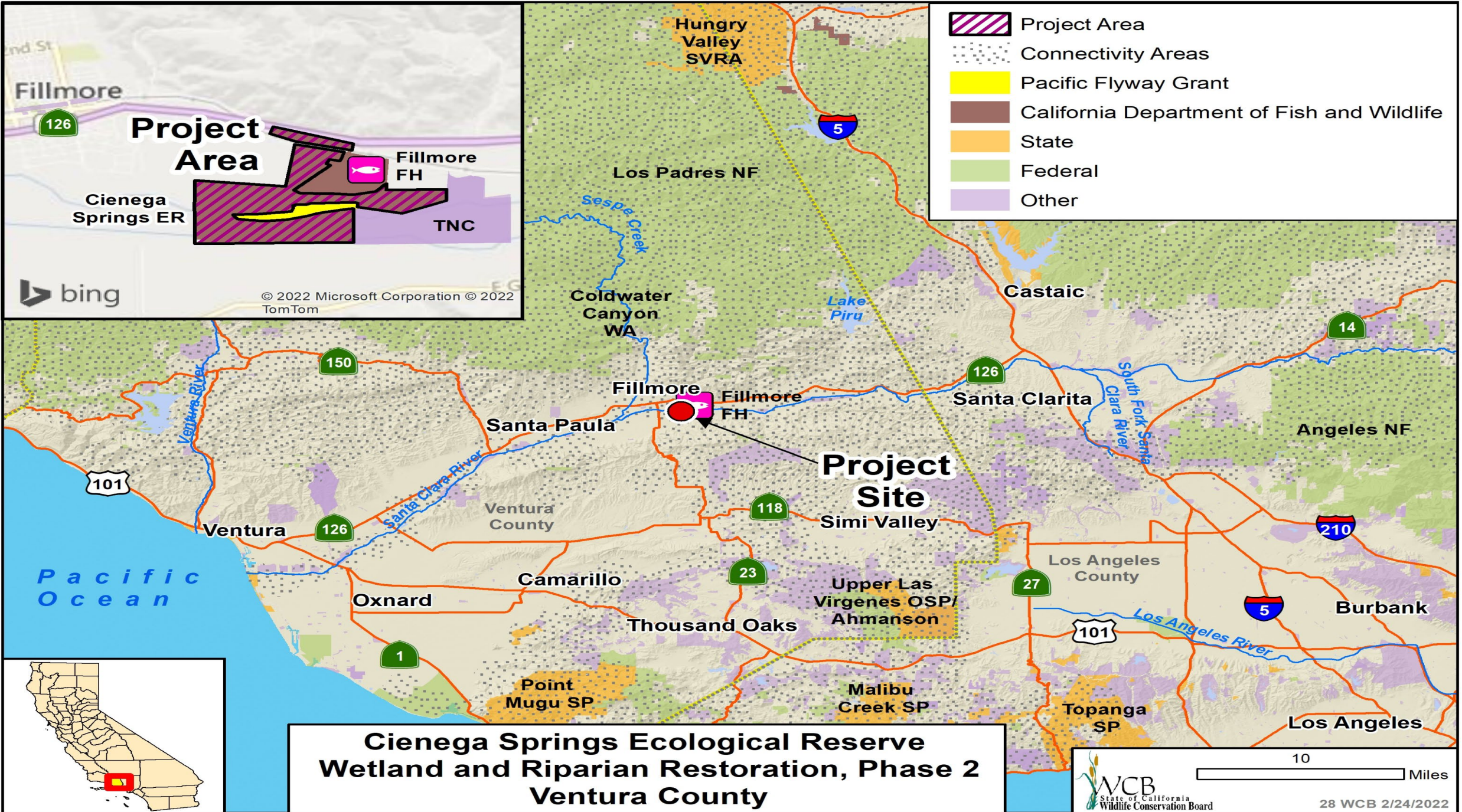


26. Habitat Assessments and Restoration for Monarch Butterflies

Slide 5



-  Project Area
-  Connectivity Areas
-  Pacific Flyway Grant
-  California Department of Fish and Wildlife
-  State
-  Federal
-  Other



**Cienega Springs Ecological Reserve
Wetland and Riparian Restoration, Phase 2
Ventura County**

27. Cienega Springs Wetland and Riparian Restoration, Phase 2 – Slide 1

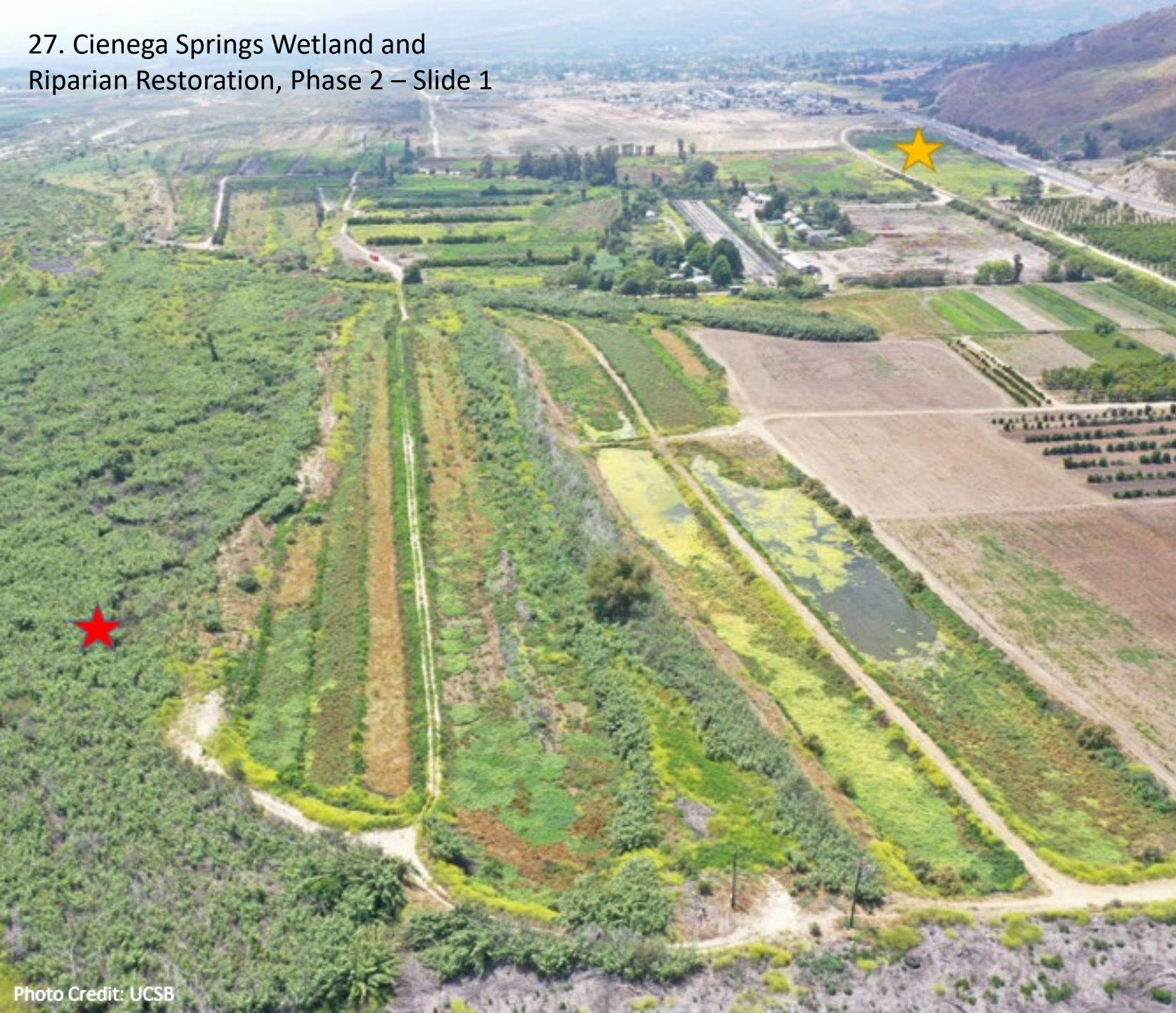


Photo Credit: UCSB

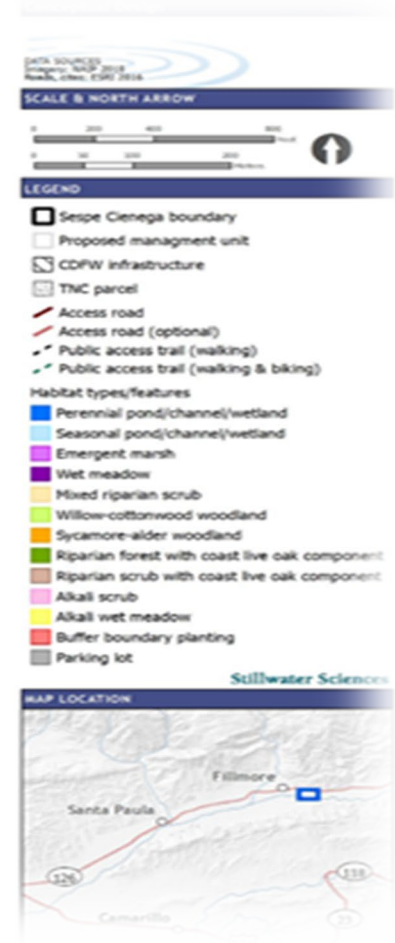


Photo Credit: UCSB



Photo Credit: UCSB

Photo Credit: UCSB



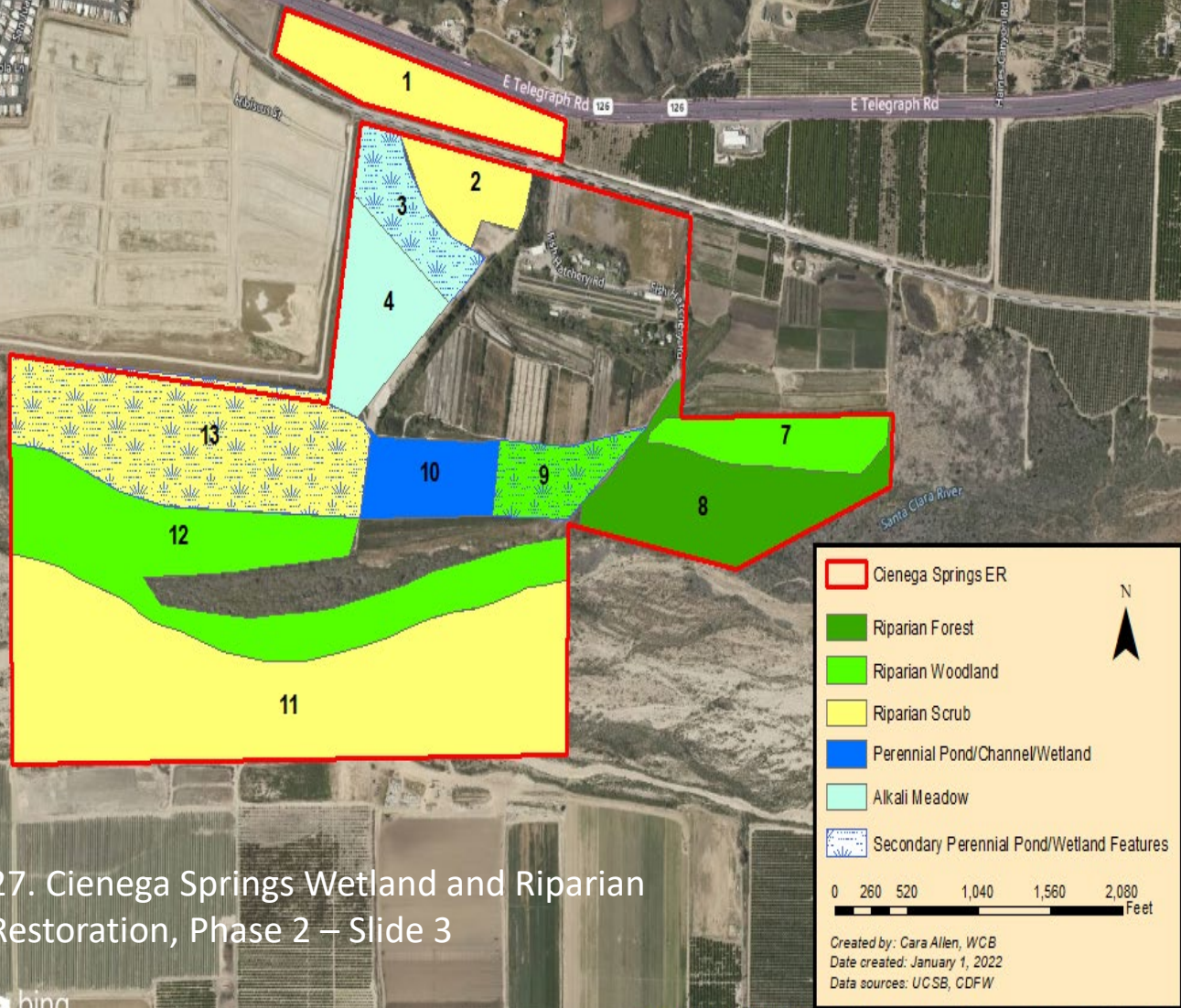
PROJECT GOALS

- Improve natural hydrology
- Restore a mosaic of self-sustaining wildlife habitat
- Provide wildlife-oriented recreational opportunity

27. Cienega Springs Wetland and Riparian Restoration, Phase 2 – Slide 2

Primary Habitat Types

Cienega Springs ER Wetland and Riparian Restoration, Phase 2



27. Cienega Springs Wetland and Riparian Restoration, Phase 2 – Slide 3

- ❖ Project Management
- ❖ Site Prep
 - Integrated pest management
 - Earthwork and grading
 - Berm breaching
 - Access road removal
 - Invasive plant and seed removal
 - Water infrastructure upgrades/removal
 - Debris and trash removal
 - Native plant nursery expansion
 - Trail and viewing platform construction
- ❖ Revegetation
 - Seed and pole collection
 - Plant propagation and procurement
 - Plant installation, irrigation, and protection
 - Maintenance
- ❖ Monitoring
 - Performance evaluation
 - Vegetation
 - Groundwater
 - Avian
 - Herpetofauna
 - Pollinators
 - Annual reporting
 - 3-year analysis

27. Cienega Springs Wetland and Riparian Restoration, Phase 2 – Slide 4



PROJECT OUTCOMES

Hydrology

- Increased surface water retention
- Elevated groundwater
- Restored hydrologic connectivity

Vegetation

- 25 acres of restored perennial pond/channel/wetland
- 200 acres of restored wildlife habitat
 - 176 acres riparian habitat
 - 50 acres wetland habitat
 - 6 acres upland and pollinator habitat
- Increased riparian tree genetic diversity
- Control of target weeds to less than 5% cover

Public Access

- Expanded native plant nursery
- 2 miles of constructed public access trail with viewing platforms

Monitoring & Adaptive Management

- Annual monitoring using scientifically based and standardized protocols
- Monitoring data used to inform adaptive management and long-term management




Legend

- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Wheeler Gorge Campground
Fish Passage Barriers Removal
Ventura County**


10 Miles
 State of California
 Wildlife Conservation Board
 29 WCB 2/24/2022

28. Wheeler Gorge Campground Fish Passage Barriers Removal

Slide 1

- The Ventura River supported one of the primary historical runs of endangered Southern California steelhead trout
 - Extensive habitat degradation and loss
- The Los Padres National Forest largely protected from development
 - Monte Arido Highland Biogeographic Population Group
- Core 1 watershed in the Southern California Steelhead Recovery Plan
- Four barriers in Wheeler Gorge Campground
 - Two are on CDFW's Fish Passage Barrier Priority list



Los Padres National Forest

28. Wheeler Gorge Campground Fish Passage Barriers Removal

Slide 2



Ventura River Watershed



Wheeler Gorge Campground

28. Wheeler Gorge Campground Fish Passage Barriers Removal

Slide 3

North Fork Matilija Creek Barriers



Upper North Fork Matilija Creek



Lower North Fork Matilija Creek

28. Wheeler Gorge Campground Fish Passage Barriers Removal

Slide 4

Bear Creek Barriers



Upper Bear Creek



Lower Bear Creek

28. Wheeler Gorge Campground Fish Passage Barriers Removal

Slide 6

Project Benefits

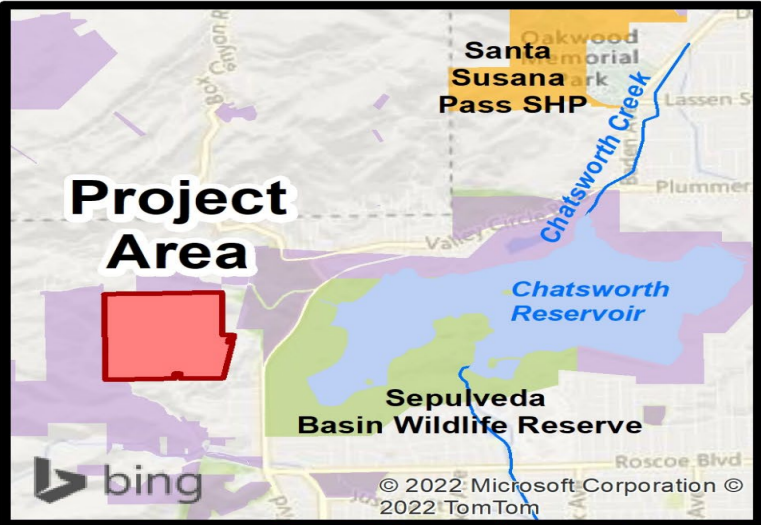
- Removal of two projects from 2019 CDFW Fish Passage Barrier Priorities list
- Allow access to 13 miles of perennial Southern California steelhead habitat
- Restore sediment transport
- Assist with climate change adaptation
- Improve campground access and safety



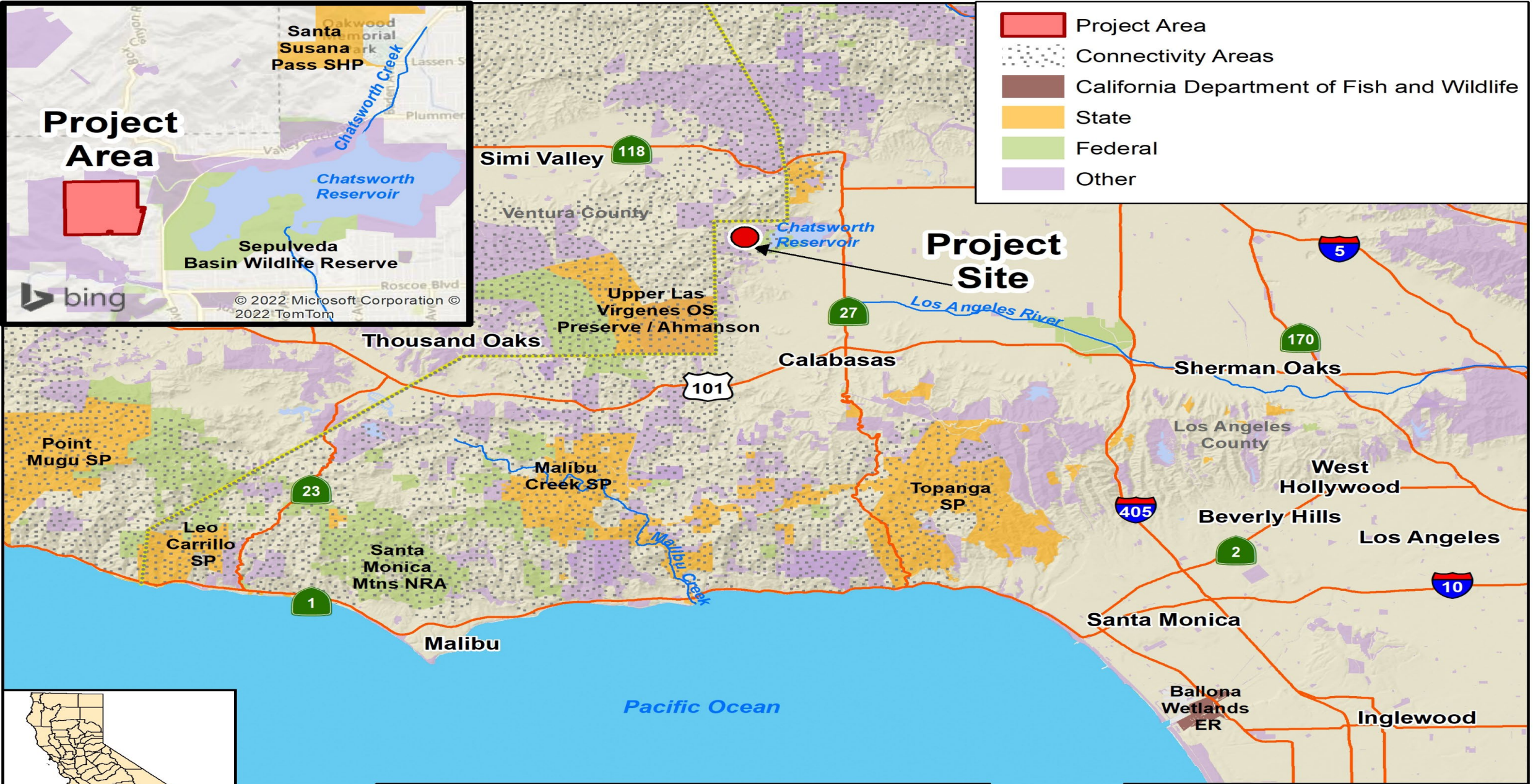
Steelhead trout



Crossing to be replaced by clear span bridge



- Project Area
- Connectivity Areas
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Chatsworth Reservoir Connector
Los Angeles County**

WCB
State of California
Wildlife Conservation Board

5 Miles

30 WCB 2/24/2022



29. Chatsworth Reservoir Connector

Slide 1

Leveled area providing
distant views to the east.



29. Chatsworth Reservoir Connector

Slide 2

Overview of habitat surrounding small canyon running through property.

A wide, shallow, dry channel of water in a desert landscape. The water is light-colored and occupies the left and center of the frame. The surrounding terrain is arid, with sparse, dry vegetation and a few green trees on the right. In the background, there are low hills and a clear blue sky.

29. Chatsworth Reservoir Connector

Slide 3

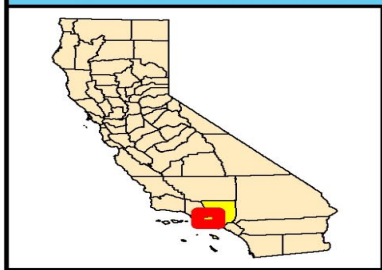
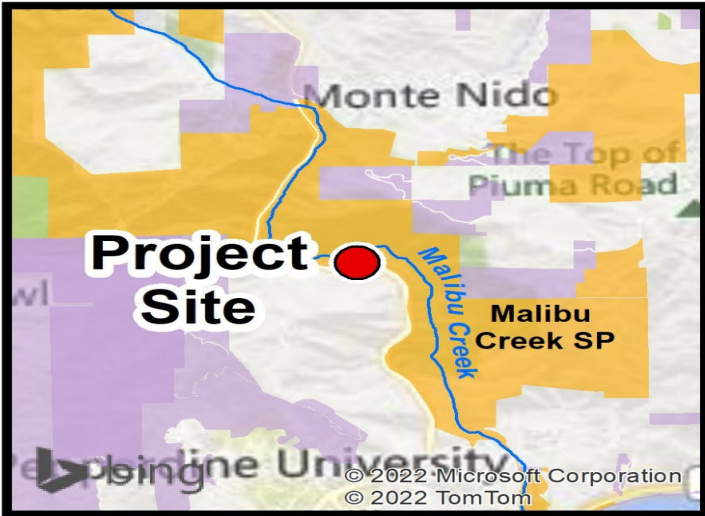
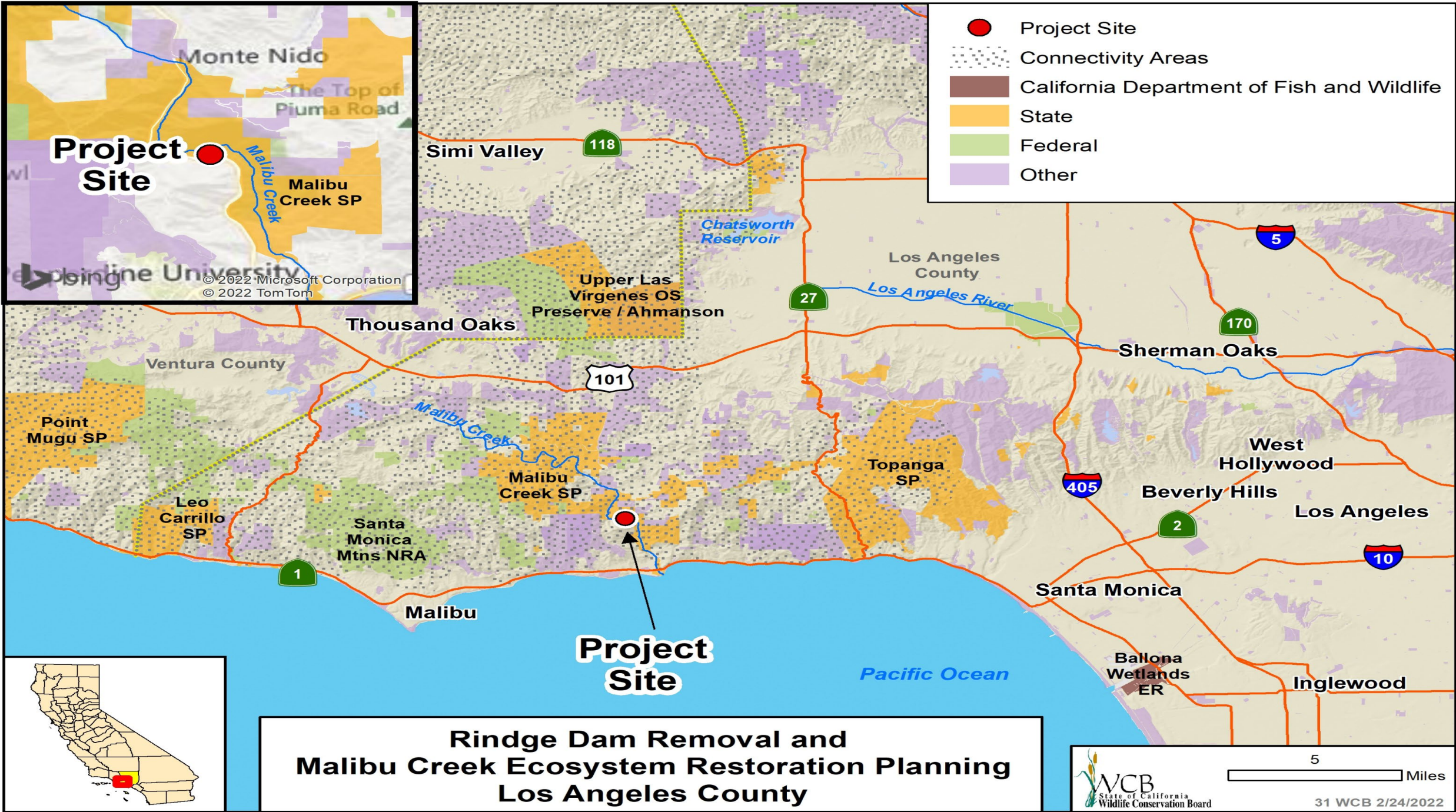
Southern portion looking
northeast.



29. Chatsworth Reservoir Connector

Slide 4

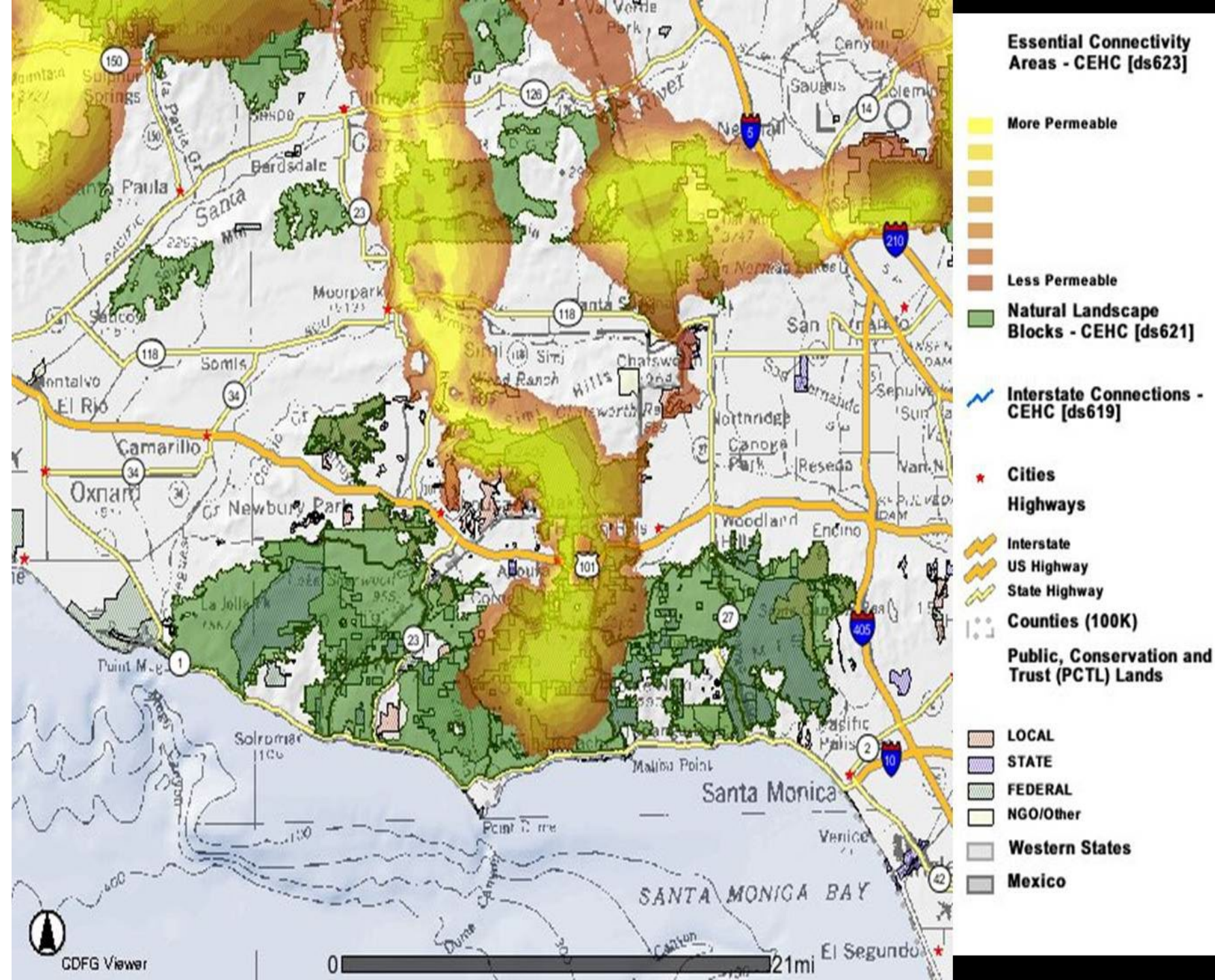
Property entrance from end of Val
Verde Drive.



30. Rindge Dam Removal and Malibu Creek Ecosystem Restoration Planning

Slide 1

- Illustrates the connectivity of Malibu Lagoon and Liberty Canyon





30. Rindge Dam Removal and
Malibu Creek Ecosystem
Restoration Planning
Slide 2

- Photo Courtesy of the Haggarty Family

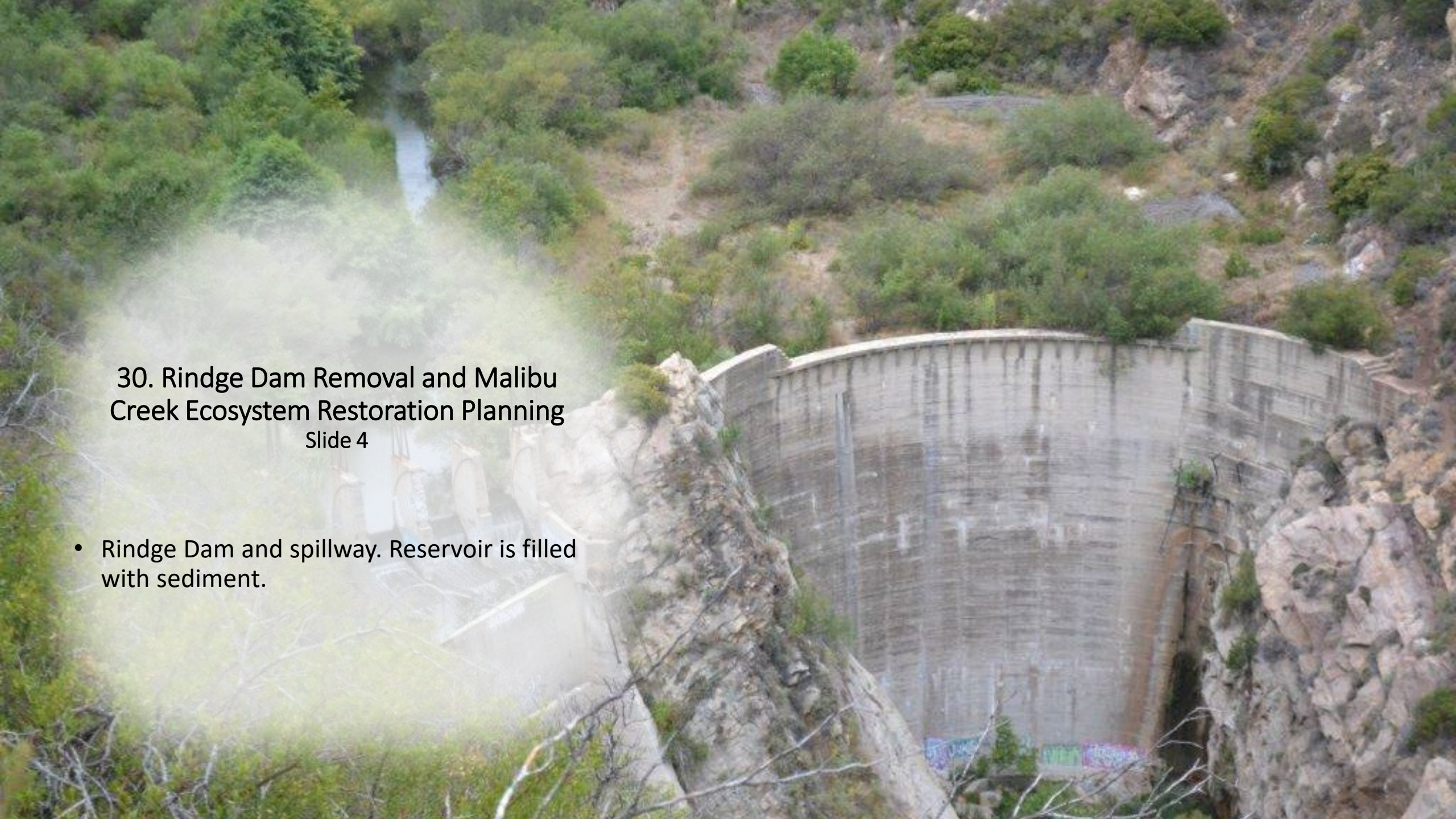
A photograph of the Rindge Dam, a large concrete structure with multiple spillways, situated in a rocky, mountainous area. The dam is surrounded by green vegetation and a clear blue sky. The water is cascading down the spillways, creating white foam and mist. The dam is built on a rocky foundation and has a series of vertical supports along its length.

30. Rindge Dam Removal and Malibu Creek Ecosystem Restoration Planning

Slide 3


Why take out the Dam?

1. Reconnecting Natural Waterways
2. Sand for our beaches, stone for our surf breaks
3. Improve Public Safety



30. Rindge Dam Removal and Malibu
Creek Ecosystem Restoration Planning
Slide 4

- Rindge Dam and spillway. Reservoir is filled with sediment.

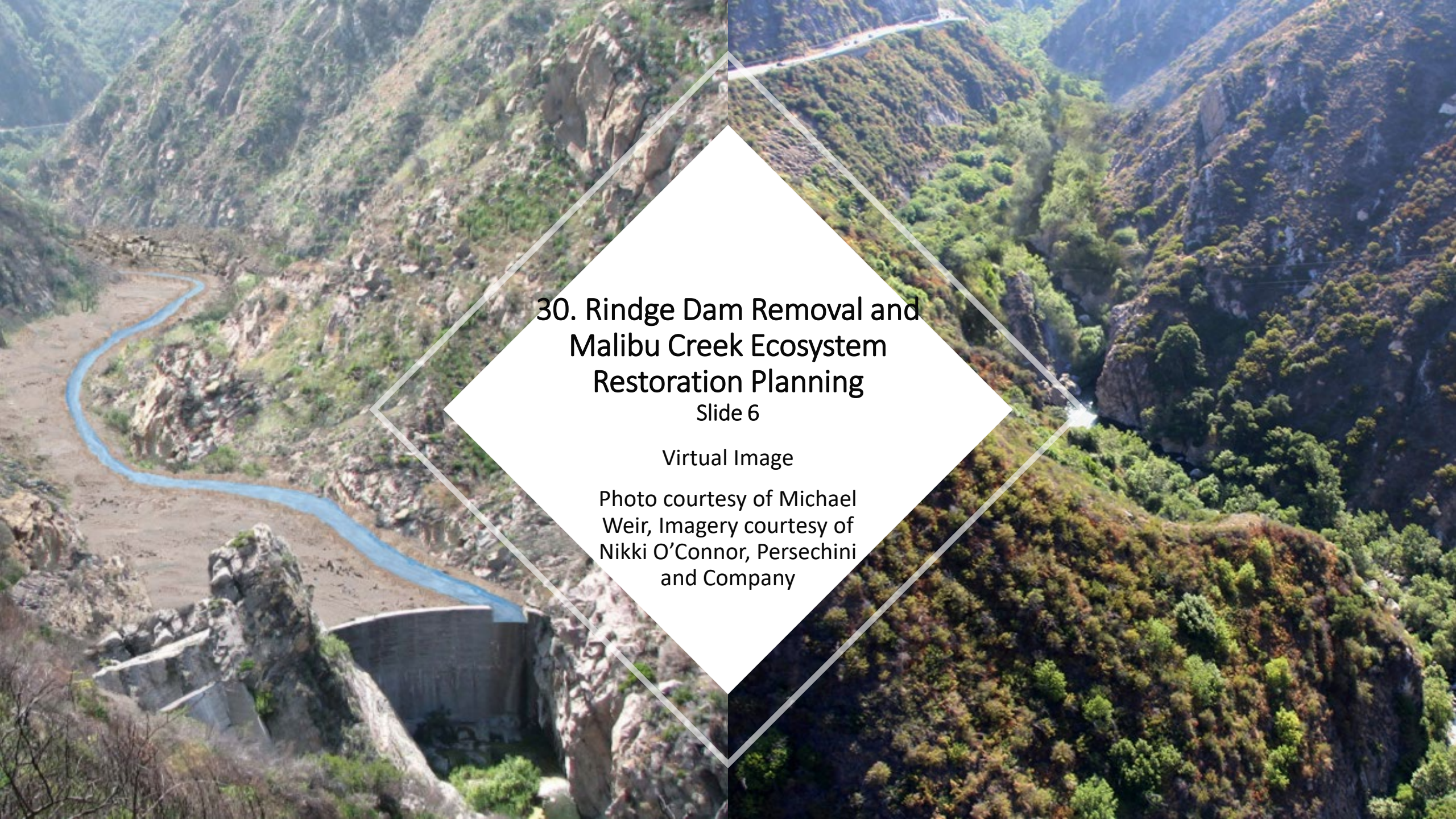


30. Rindge Dam Removal and Malibu Creek Ecosystem Restoration Planning

Slide 5

Rindge Dam now




An aerial photograph of a river valley. A concrete dam is visible in the lower-left quadrant, with a river flowing through a rocky channel. The surrounding hills are covered in dense green vegetation. A road is visible on a ridge in the upper part of the image. A large white diamond shape is overlaid on the center of the image, containing text.

30. Rindge Dam Removal and Malibu Creek Ecosystem Restoration Planning

Slide 6

Virtual Image

Photo courtesy of Michael
Weir, Imagery courtesy of
Nikki O'Connor, Persechini
and Company



31. Temescal Ranch, Expansion 1

Slide 1

- Looking north up the main valley of Temescal Ranch.



31. Temescal Ranch, Expansion 1

Slide 2

Native grasslands and wildflowers cover
large portions of the Property



31. Temescal Ranch, Expansion 1

Slide 3

Spring fed creeks make the property an important resource for wildlife in the area



31. Temescal Ranch, Expansion 1

Slide 4

A young bear spotted in the chaparral



31. Temescal Ranch, Expansion 1

Slide 5

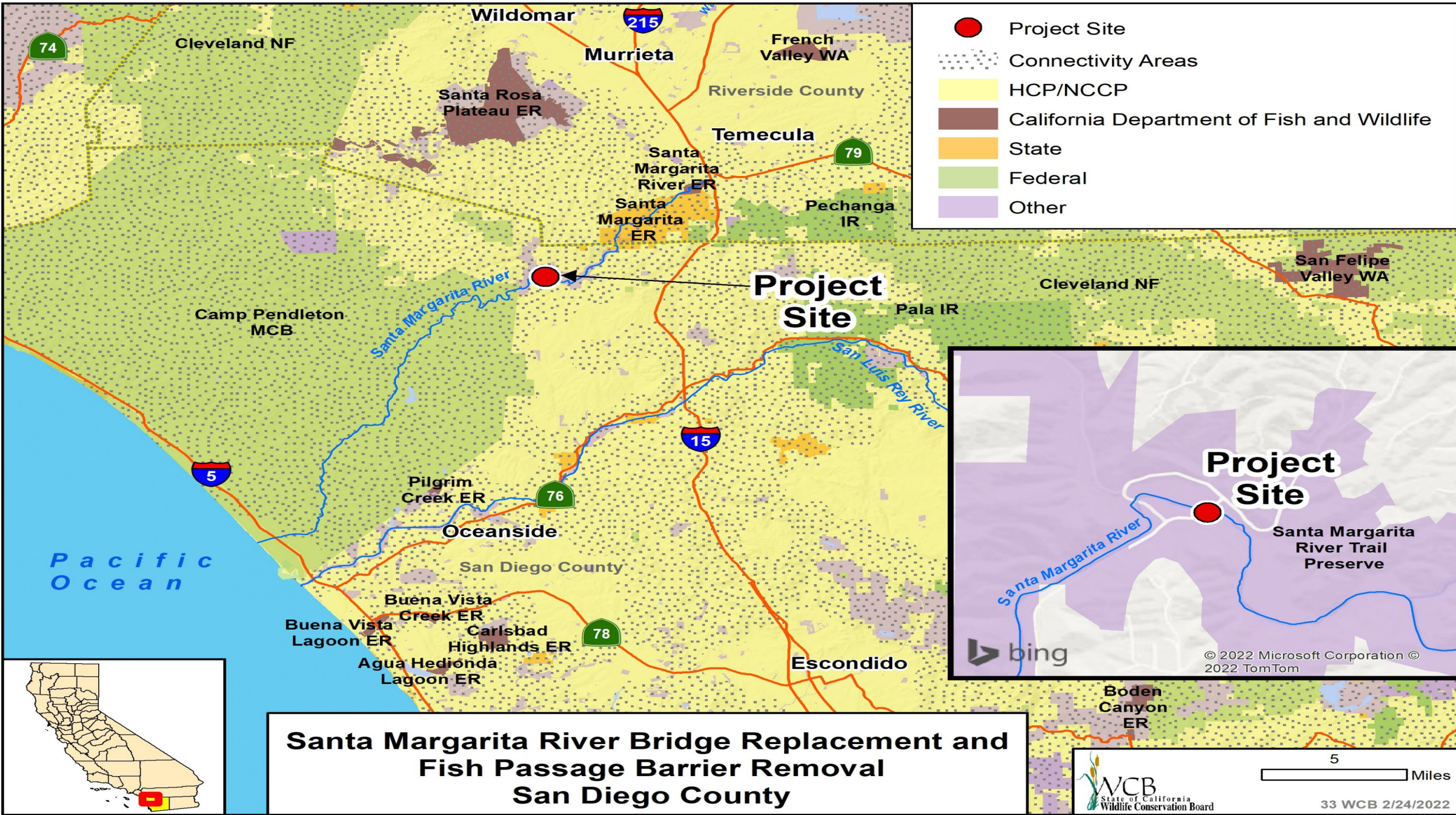
A mountain lion lurks in the oak woodlands as they recover from the Holser Fire

31. Temescal Ranch, Expansion 1

Slide 6

- TPL staff enjoying a “Day on the Land” with Lake Piru and the Los Padres National Forest in the background





- Project Site
- Connectivity Areas
- HCP/NCCP
- California Department of Fish and Wildlife
- State
- Federal
- Other

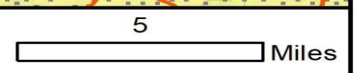
Project Site

Santa Margarita River Trail Preserve

bing

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**Santa Margarita River Bridge Replacement and
Fish Passage Barrier Removal
San Diego County**



32. Santa Margarita River Bridge Replacement and Fish Passage Barrier Removal

Slide 1

Santa Margarita River

- Relatively lightly impacted by urbanization over 29 miles from ocean to headwaters
- Protected by the Santa Margarita Ecological Preserve
- Historically supported endangered Southern California steelhead
 - Natural channel characteristics for migration and propagation of steelhead.
- High priority steelhead recovery river as designated in NMFS Southern California Steelhead Recovery Plan
- Sandia Creek Drive Bridge
 - Last barrier to endangered steelhead passage.
 - Removal will provide access to 12 miles of historic upstream habitat



32. Santa Margarita River Bridge Replacement and Fish Passage Barrier Removal

Slide 2

Sandia Creek Drive Bridge



32. Santa Margarita River Bridge Replacement and Fish Passage Barrier Removal

Slide 3

Sandia Creek Drive Bridge During High Flow Conditions



32. Santa Margarita River Bridge Replacement and Fish Passage Barrier Removal

Slide 4

Artist Conception of Bridge Replacement



32. Santa Margarita River Bridge Replacement and Fish Passage Barrier Removal

Slide 5



Project Goals

- Restoration of riverine ecosystem processes and re-establish a steelhead population
 - Remove a major fish passage barrier in a prioritized river
 - Restore more than 5 acres of riparian habitat
 - Restore natural river hydrology
- Improve ecosystem service benefits
 - Nutrient cycling
 - Groundwater recharge
 - Sediment management
- Enhance wildlife migration corridor for threatened and endangered species
- Protection from hazardous flood conditions
 - Emergency vehicle access and evacuation routes
- Safe access to Santa Margarita Trail Preserve

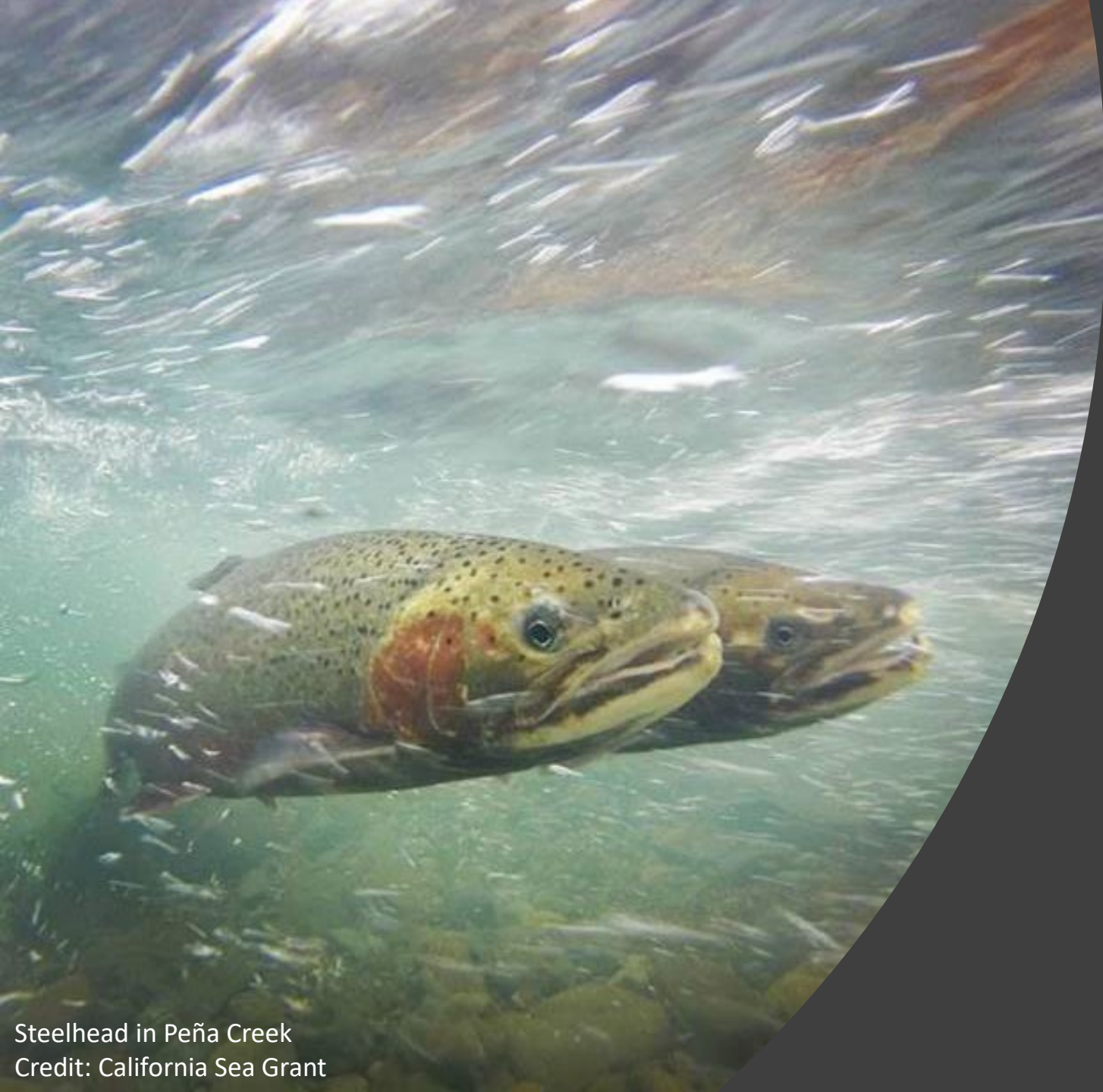


**Proposed Items 19-32
Motion**

Centennial Point Ranch



Item 33. Executive Director's Report



Stream Flow Enhancement Program

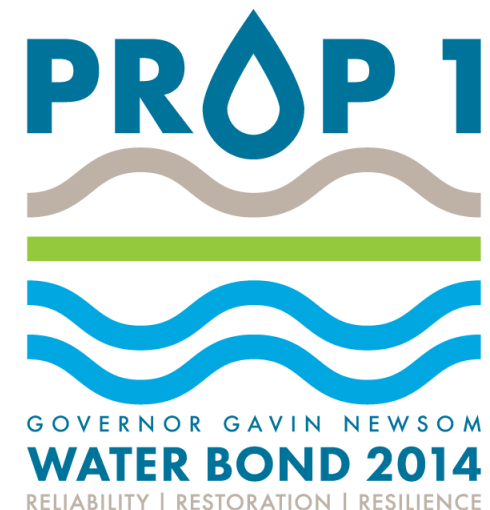
Five-Year Report

Steelhead in Peña Creek
Credit: California Sea Grant



Background

- Proposition 1 (2014)
 - \$200 million to the Wildlife Conservation Board
 - Statewide competitive grant program, administered through annual PSN
- “Stream Flow Enhancement” – *a change in the amount, timing, and/or quality of water flowing down a stream, or a portion of a stream, to benefit fish and wildlife*
 - California Water Action Plan
 - Special-status species (e.g., Chinook and coho salmon, steelhead trout)
 - Climate resiliency



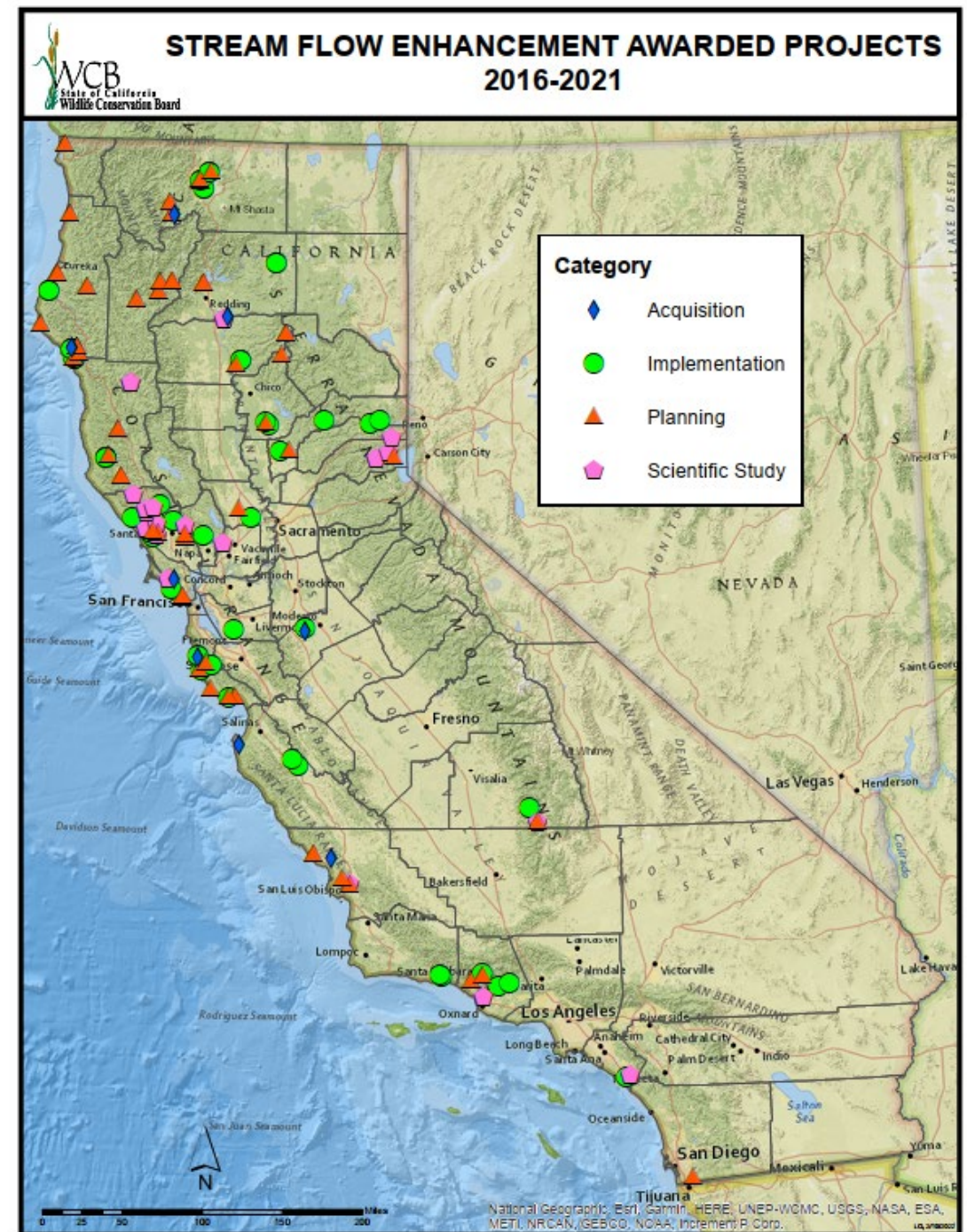
Total Awards (2016 – 2021)

Project Category	Number Awarded*	Funding Awarded
Acquisition	8	\$18,280,250
Implementation	50	\$82,447,952
Planning	50	\$23,748,409
Scientific Study	20	\$9,538,909
	128	\$134,015,520

Project Benefits

Total River Miles 439

*Projects withdrawn after award have been excluded. Several Acquisitions included Implementation or Planning elements which were split into separate grants.



Acquisitions and Instream Dedications



East Fork Scott River at Hayden Ranch (fee acquisition of ±6,095 acres)
Credit: The Wildlands Conservancy



Carmel River at Rancho Cañada
(fee acquisition of ±185 acres)
Credit: Monterey Peninsula
Regional Park District

Please indicate County where your project is located here:

MAIL FORM AND ATTACHMENTS TO:
 State Water Resources Control Board
DIVISION OF WATER RIGHTS
 P.O. Box 2000, Sacramento, CA 95812-2000
 Tel: (916) 341-5300 Fax: (916) 341-5400
<http://www.waterboards.ca.gov/waterrights>

PETITION FOR CHANGE

Separate petitions are required for each water right. Mark all areas that apply to your proposed change(s). Incomplete forms may not be accepted. Location and area information must be provided on maps in accordance with established requirements. (Cal. Code Regs., tit. 23, § 715 et seq.) Provide attachments if necessary.

Point of Diversion Wat. Code, § 1701
 Point of Rediversion Cal. Code Regs., tit. 23, § 791(e)
 Place of Use Wat. Code, § 1701
 Purpose of Use Wat. Code, § 1701

Distribution of Storage Cal. Code Regs., tit. 23, § 791(e)
 Temporary Urgency Wat. Code, § 1435
 Instream Flow Dedication Wat. Code, § 1707
 Waste Water Wat. Code, § 1211

Split Cal. Code Regs., tit. 23, § 836
 Terms or Conditions Cal. Code Regs., tit. 23, § 791(e)
 Other

Application
 Permit
 License
 Statement

I (we) hereby petition for change(s) noted above and described as follows:

Point of Diversion or Rediversion – Provide source name and identify points using both Public Land Survey System descriptions to ¼-¼ level and California Coordinate System (NAD 83).
 Present:
 Proposed:

Place of Use – Identify area using Public Land Survey System descriptions to ¼-¼ level; for irrigation, list number of acres irrigated.
 Present:
 Proposed:

Purpose of Use
 Present:
 Proposed:

Storage and Forbearance

Project Benefits

Tank projects constructed	62
New tank storage capacity	3,432,000 gallons
Ponds constructed	3
New pond storage capacity	117 acre-feet



Rainwater catchment tank near
Green Valley Creek
Credit: Gold Ridge RCD



Agricultural pond near San
Gregorio Creek
Credit: San Mateo RCD

Habitat Restoration and Enhancement

Habitat Restored	Acres
Mountain Meadows	294
Floodplain Reconnection	577
<i>Arundo donax</i> Treatment	1,152
Forest Thinning	1,331



Wet meadow following restoration work on Hat Creek
Credit: Fall River RCD



A large stand of *Arundo* near the Salinas River, pre-treatment
Credit: RCD of Monterey County

Scientific Studies



Stream Flow monitoring transect
Credit: Gold Ridge RCD



A mixed hardwood forest experiencing Douglas Fir encroachment (above) and a managed hardwood forest that has undergone fuel reduction treatments (below)
Credit: R. Ferrell, Pepperwood Preserve

Looking Ahead

- Challenges and Lessons
 - Low number of water right acquisitions
 - Length of time to accomplish instream dedications
 - Quantifying stream flow benefits
 - Limited baseline data available
- Anticipating results from several scientific studies, and project monitoring
- Continuing support for previous investments
- New funding source introduced

Questions?

Program Contacts:

Aaron Haiman, Program Manager

(916) 926-8835

Alyssa Persau, Project Manager

(916) 212-0691

wcbstreamflow@wildlife.ca.gov

<https://wcb.ca.gov/Programs/Stream-Flow-Enhancement>

Total Awards (2016 – 2021)

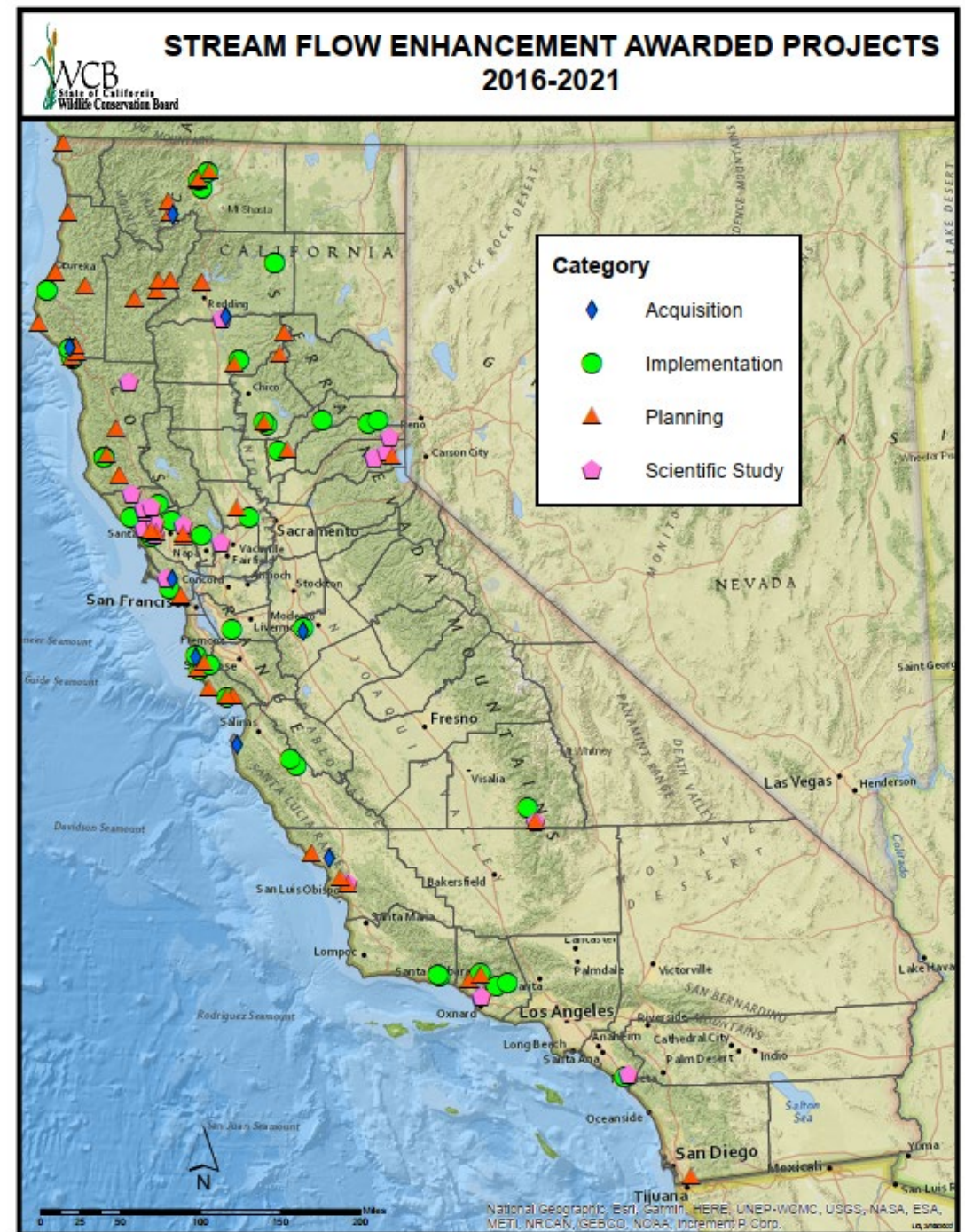
Stream Flow Enhancement Awarded Projects

Project Category	Number Awarded*	Funding Awarded
Acquisition	8	\$18,280,250
Implementation	50	\$82,447,952
Planning	50	\$23,748,409
Scientific Study	20	\$9,538,909
	128	\$134,015,520

Project Benefits

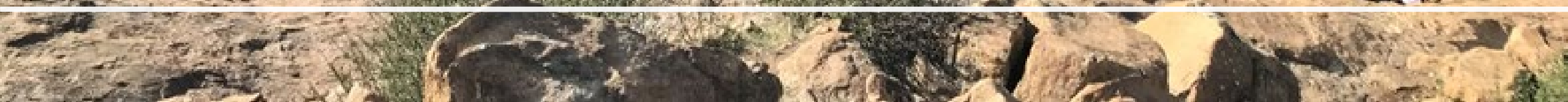
Total River Miles 439

*Projects withdrawn after award have been excluded. Several Acquisitions included Implementation or Planning elements which were split into separate grants.





Streamlined Continuous Application Process/Guidelines



2021 WCB Year in Review

State of California
Natural Resources Agency
Department of Fish and Wildlife

WILDLIFE CONSERVATION BOARD 2021 YEAR IN REVIEW



Photo: Truckee Springs



2021 WCB Year in Review

Slide 2

WCB IN 2021

WCB contributed to 160 projects in the 2021 calendar year, allocating approximately \$162.8 million in funding including:

- **\$76.5 million** for habitat restoration and enhancement of over 17,000 acres.
- **\$43.7 million** for protection of over 30,000 acres of wildlife habitat.
- **\$42.6 million** was spent on planning, studies and public access.

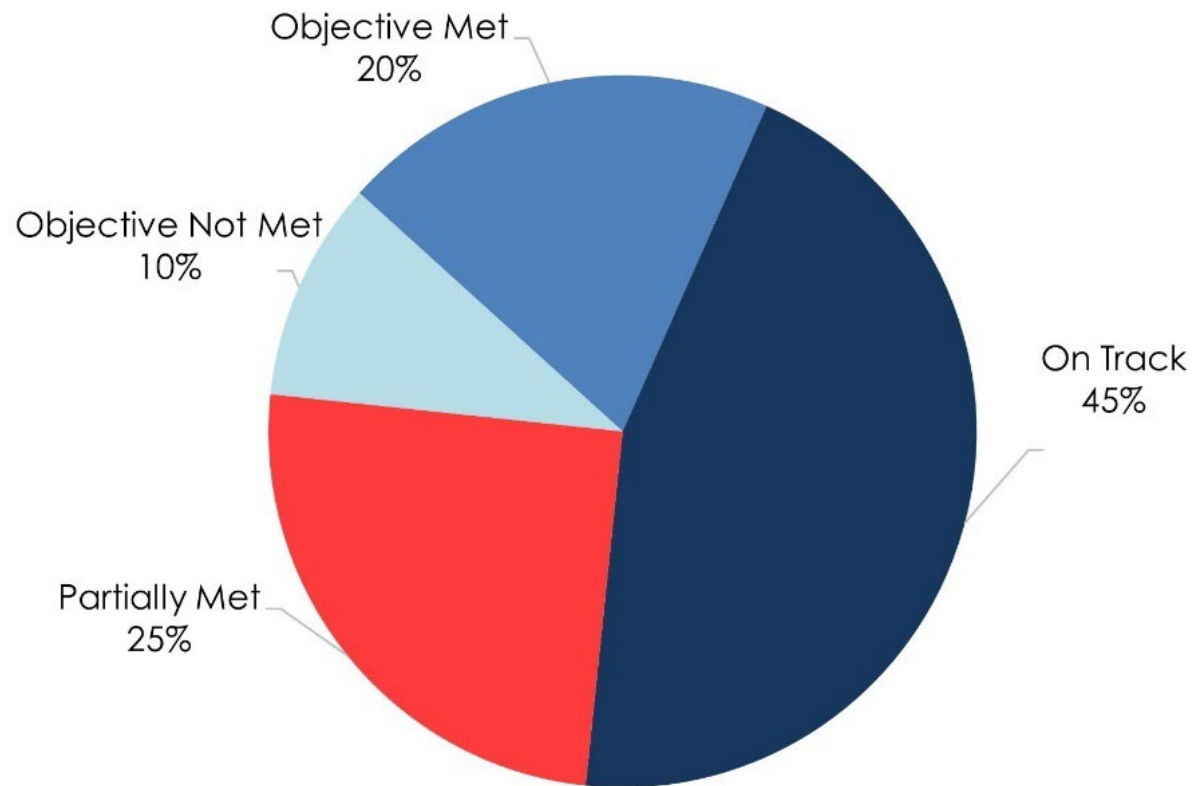
Additionally, WCB expenditures leveraged over \$126 Million in partner contributions.



2021 WCB Year in Review

Slide 3

STRATEGIC PLAN OBJECTIVES MET IN 2021





**Stay Safe and Healthy, Enjoy Your Day!
Next Board Meeting May 26, 2022**