



Wildlife Conservation Board Meeting
November 18, 2021
1:00pm

Pajaro River



Item 2. Public Forum

Quail Ridge



Item 3. Funding Status

WCB Funding
in AB 170
FY 21-22

Sec. 53, 3640-101-001 Local Assistance

Dam Removal

Drought Impacts (less admin)

Climate (less admin)

Acquisition

Restoration

Goals of 30x30

Total amount for projects

Expend by

June 2024

\$12,500,000.00

\$52,729,000.00

\$25,971,000.00

\$91,200,000.00

Sec. 54, 3640-102-001 Local Assistance

Expend by

June 2024

Law of 1947 (General authorities)

Enhancement of instream flow

Acquisition of water rights (1707)

Short- or long-term transfers or leases

Water for fish and wildlife

Improve aquatic and riparian resources

Priority to enhance delta outflow

Total for Projects (less admin):

\$95,000,000.00

Sec. 55 3640-301-001

Expend by

June 2023

West Coyote Hills Appraisal

\$1,000,000.00

Sec. 19.56 Item 81

City of Lake Elsinore - aquatic restoration

\$750,000.00

Sec 19.57 Item 10

Lone Pine Ranch Acquisition

\$10,000,000.00



Item 4. Executive Director's Report

WCB

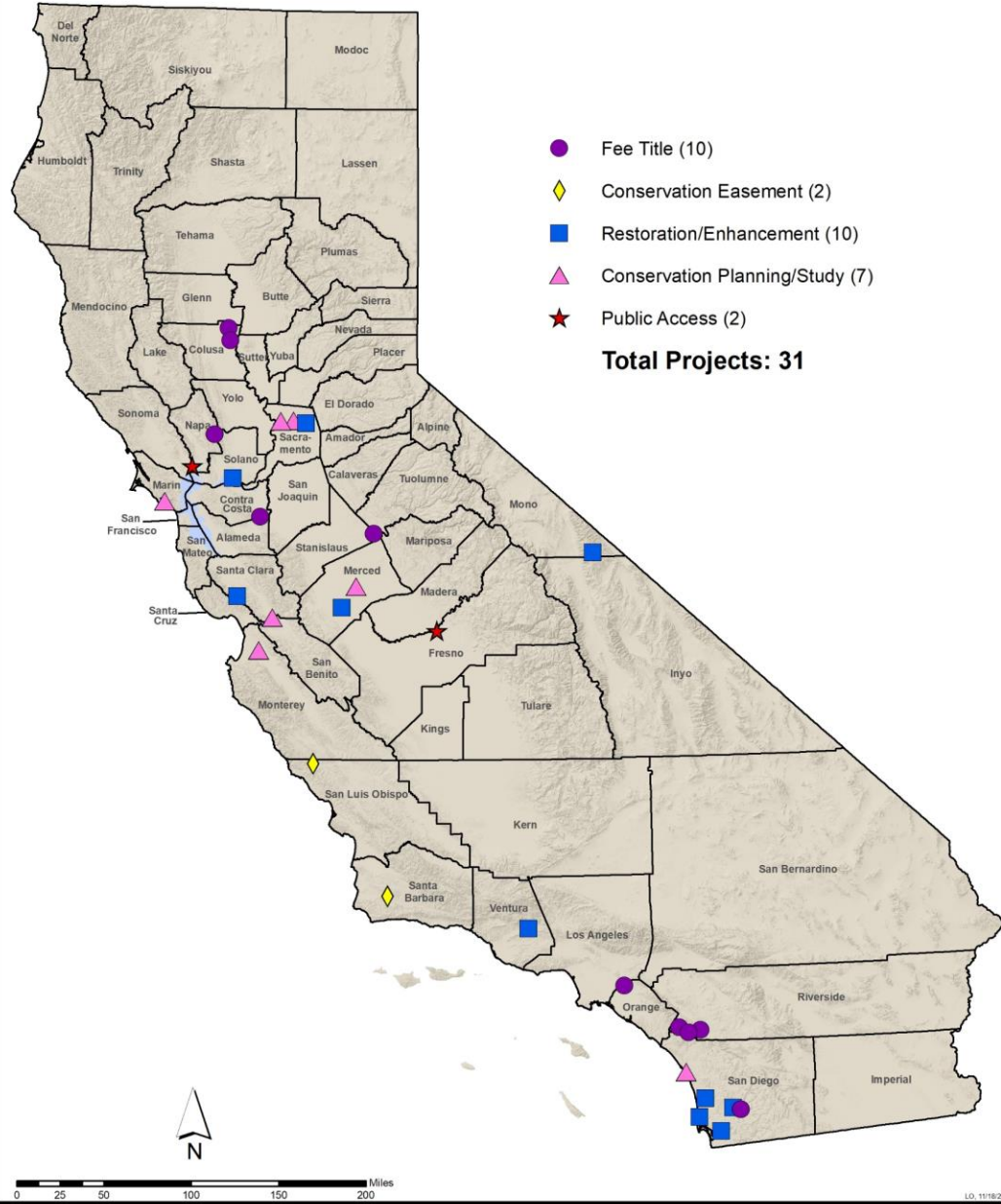
2021 Legislation

- TB 149 – Nonvehicular Wildlife Crossings – amends Fish and Game Code to add Chapter 13, Section 1950 to address naming of crossings.
 - Defines nonvehicular wildlife crossing
 - WCB may name crossing if at least 25% of funding to construct is derived from a state source
 - Consultation with CalTrans
 - WCB may adopt criteria for implementation
- AB 379 (Gallagher) – amends FGC 1350 to authorize the Department and WCB to enter into agreements with, and make grants to, California Native American tribes.

WCB

2021 Legislation Cont.

- AB 1183 (Ramos) – establishes the California Desert Conservation Program at WCB in consultation with and through DFW.
 - Protect, preserve, and restore the natural, cultural, and physical resources of the portions of the Mojave and Colorado Deserts region in California
 - Promote the protection and restoration of the biological diversity of the region
 - Provide for resilience in the region to climate change
 - Protect and improve air quality and water resources within the region
 - Enhance public use and enjoyment of lands owned by the public
 - Establishes the California Desert Conservation Fund Account.
- AB 1219 (Berman) – amends Sections 17053.30 and 23630 of the Revenue and Taxation Code, for the purpose of extending the sunset date of the Natural Heritage Preservation Tax Credit Act of 2000.
 - Renews qualified tax credit for qualified contributions from January 1, 2021 through June 30, 2026.



Wildlife Conservation Board Meeting November 18, 2021 Project Map



Consent Items 5-25

Western Riverside MSHCP (2017) Schumacher

TNC Schumacher

Item 5. Recovery of Funds

Fund Name	Amount
Safe Neighborhood Parks, Clean Water, Clean Air, and Coastal Protection Bond Fund	\$0.00
Habitat Conservation Fund	\$188,418.87
Greenhouse Gas Reduction Fund	\$12,783.50
California Clean Water, Clean Air, Safe Neighborhood Parks, and Coastal Protection Fund	\$26,509.00
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	\$132,965.19
Water Quality, Supply, and Infrastructure Improvement Fund of 2014	\$516,051.91
The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018	\$10,000.00
Total Recoveries for All Funds	\$886,728.47



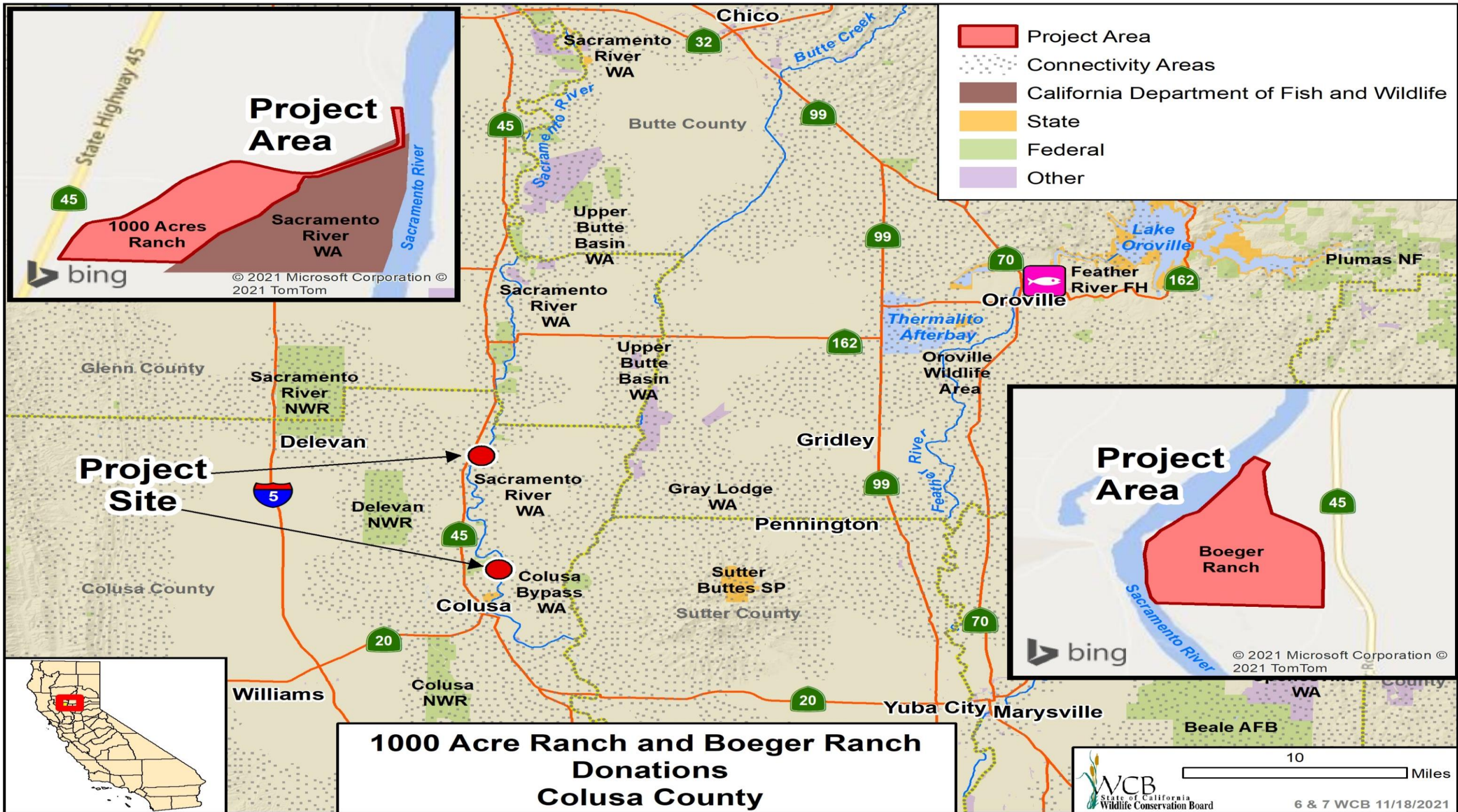
Consent Items 5-25 Motion

1000 Acre Ranch



Proposed Calendar Items 26-36

Hudeman Slough



6. 1000 Acre Ranch Donation

Slide 1

Looking southwest





6. 1000 Acre Ranch Donation

Slide 2

Looking southeast

A wide river or lake with a grassy bank in the foreground and buildings in the distance. The water is calm, reflecting the sky. The grassy bank is in the lower right foreground. In the distance, there are several large, light-colored buildings, possibly a university campus, under a clear blue sky. The left side of the image shows some dark, leafless trees.

6. 1000 Acre Ranch Donation

Slide 3

- Flooded Looking South
From Levee 2017



6. 1000 Acre Ranch Donation

Slide 4

Flooded on Northern Levee 2017



6. 1000 Acre Ranch Donation

Slide 5


- Flooded from Levee
Looking North 2017

A landscape photograph showing a wide river on the left, its surface reflecting the sky and the surrounding trees. The right bank is a gravel bar, covered in grey gravel and patches of dry, brown grass and shrubs. In the background, a dense line of bare trees stretches across the horizon under a clear, pale blue sky. The lighting suggests late afternoon or early morning, with a warm glow on the trees.

7. Boeger Ranch Donation

Slide 1


Gravel Bar South Boundary Looking
North

A landscape photograph showing a wide, green field under a clear blue sky. A tall wooden utility pole stands in the middle ground, with some dry, yellowish grass at its base. In the background, a line of trees with bare branches is visible. The foreground shows a dirt path or levee with some green grass. The text '7. Boeger Ranch Donation' is overlaid on the left side of the image.

7. Boeger Ranch Donation

Slide 2

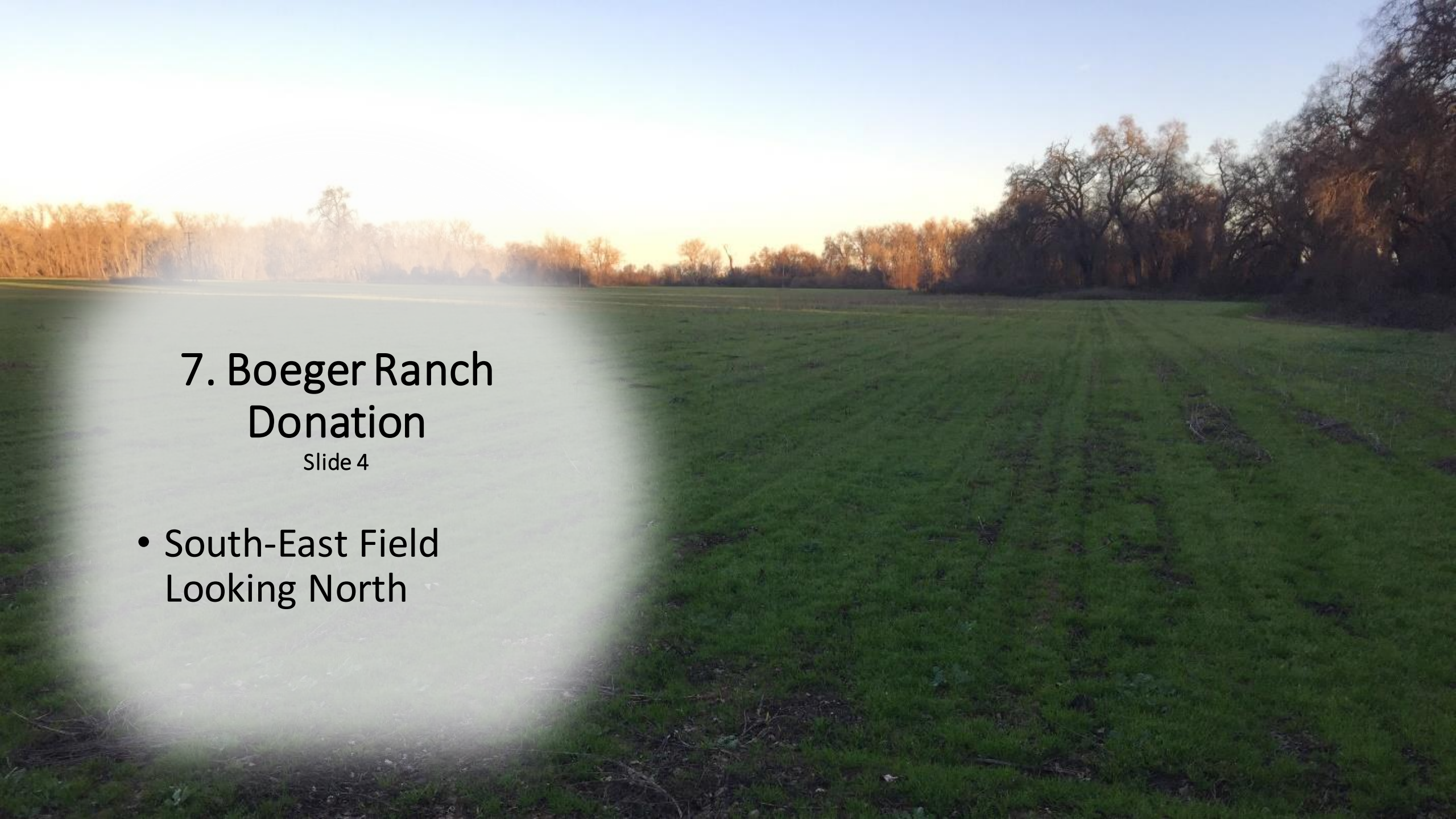
Standing on Levee
Looking South-West



7. Boeger Ranch Donation

Slide 3

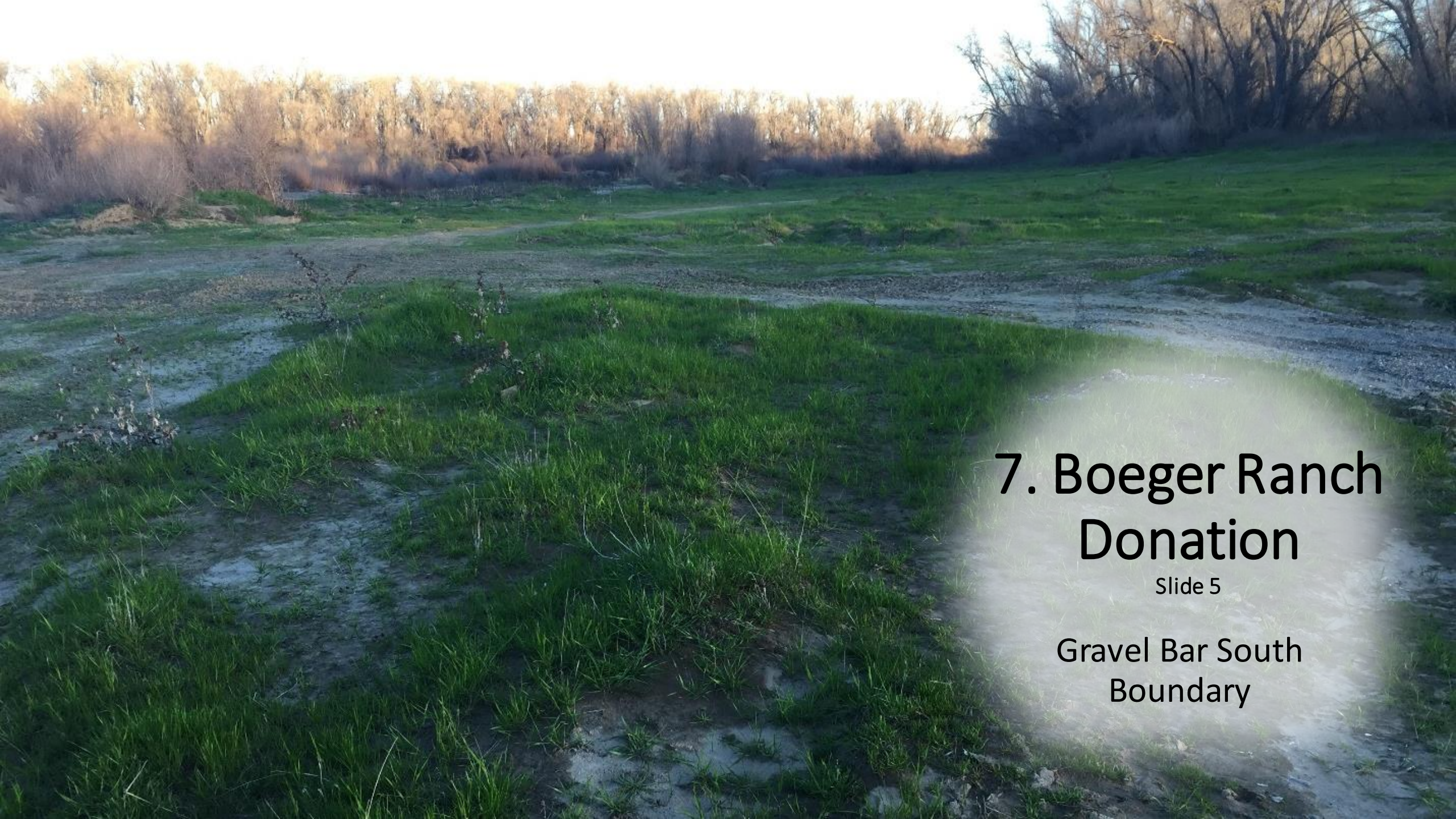
South-West Corner Field Looking
North



7. Boeger Ranch Donation

Slide 4

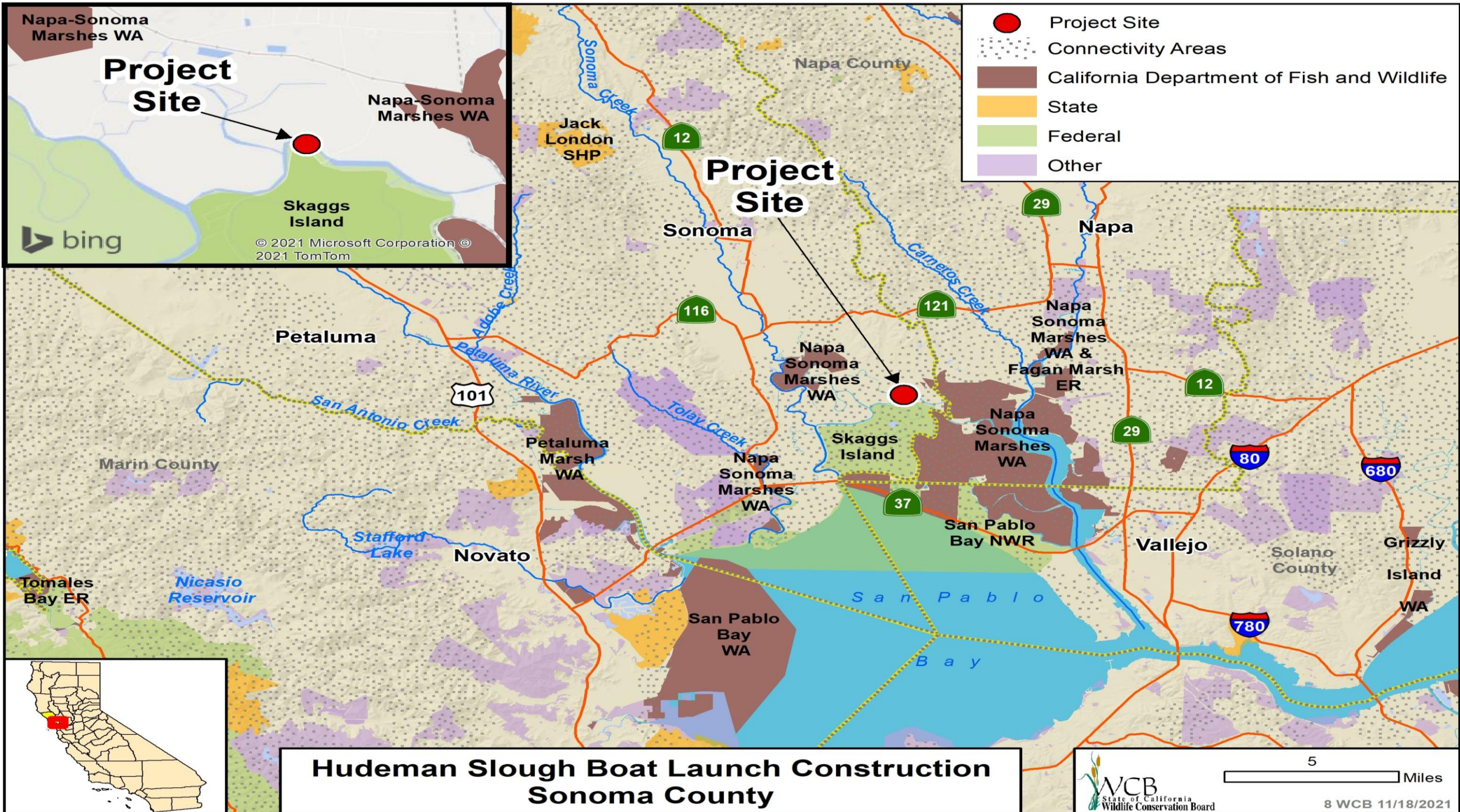
- South-East Field
Looking North

A landscape photograph showing a wide, flat area of green grass and muddy patches, likely a gravel bar or floodplain. In the background, there is a dense line of trees with bare, brown branches, suggesting a late autumn or winter setting. The sky is bright and overcast.

7. Boeger Ranch Donation

Slide 5

Gravel Bar South
Boundary



8. Hudeman Slough Boat Launch Construction

Slide 1



Aerial view of the Hudeman Slough Boat Launch location.

Photo by Sonoma County Regional Parks staff



8. Hudeman Slough Boat Launch Construction

Slide 2

Construction will include:

- New, one-lane boat launch
- ADA parking and pathways
- New Vault Toilet
- Parking lot improvements
- Bilingual signage

From left to right: Existing boat launch, damaged boat launch, and damaged boarding float.
Photos by Sonoma County Regional Parks staff

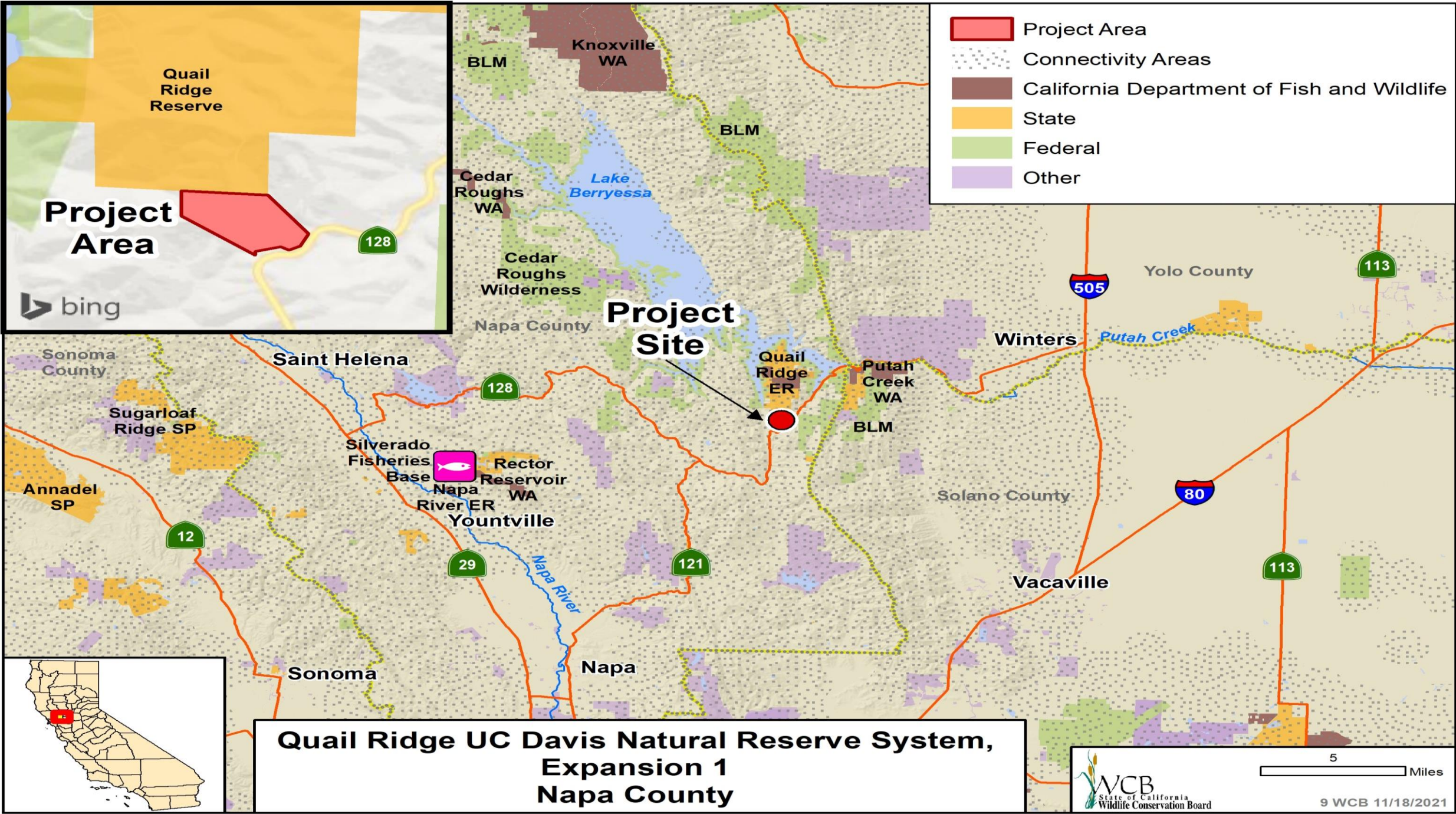


8. Hudeman Slough Boat Launch Construction

Slide 3

Looking downstream to the existing boat launch.

Photo by Sonoma County Regional Parks staff



9. Quail Ridge UC Davis Natural Reserve System, Expansion 1

Slide 1

View of road on the Property.
The Property is the main access
route to the Reserve and its field
station.






9. Quail Ridge UC Davis Natural Reserve System, Expansion 1

Slide 2

View of the Property and
surrounding terrain.



9. Quail Ridge UC Davis Natural Reserve System, Expansion 1

Slide 3

Trees on the Property consist primarily of oak woodlands. Oak trees observed on the Property include Interior live oak, blue oak, scrub oak, and valley oak.

9. Quail Ridge UC Davis Natural Reserve System, Expansion 1

Slide 4

- The Property has a pond which would be the only pond at the Reserve with perennial water.

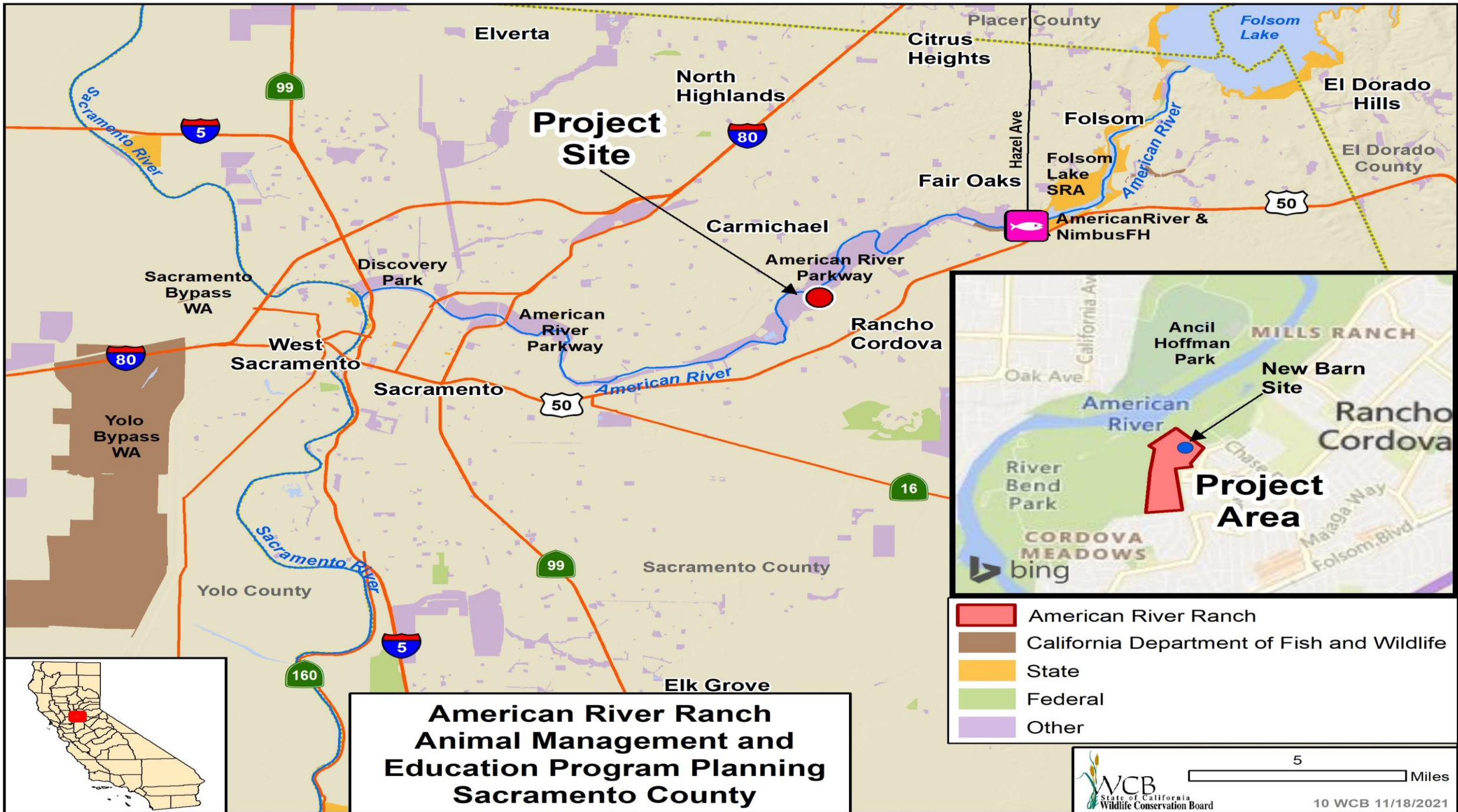


9. Quail Ridge UC Davis Natural Reserve System, Expansion 1

Slide 5

Looking downstream to the east.







10. American River Ranch Animal Management and Education Program Planning

Slide 1
Experiential learning programs

Photo credit: Soil Born Farm



Photo credit: John Swain



Photo credit: Guy Galante

10. American River Ranch Animal Management and Education Program Planning

Slide 2

Existing animal barn



Photo credit: Soil Born Farm



10. American River Ranch Animal Management and Education Program Planning

Slide 3

Schematic of new barn design

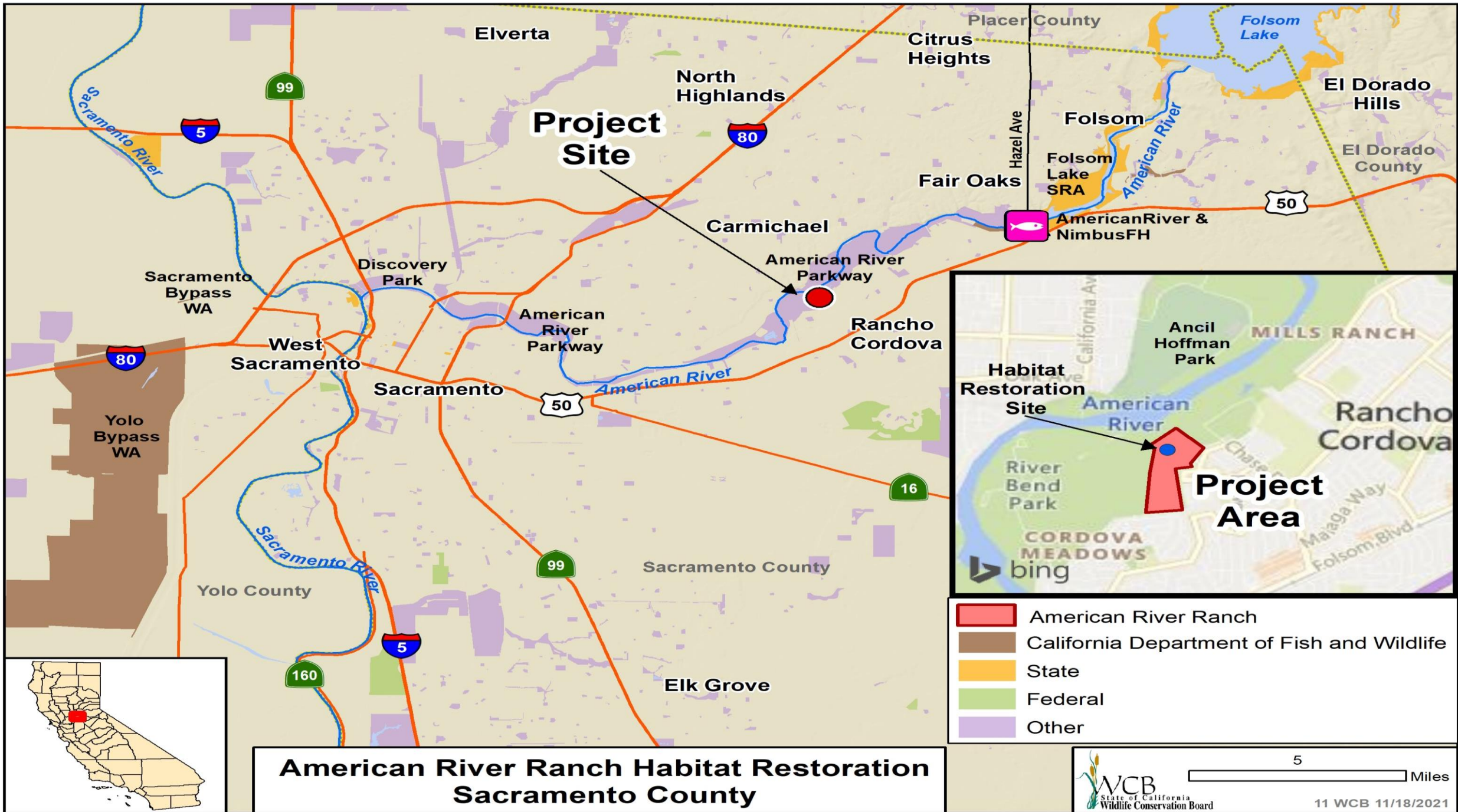




Photo credit: Soil Born Farm

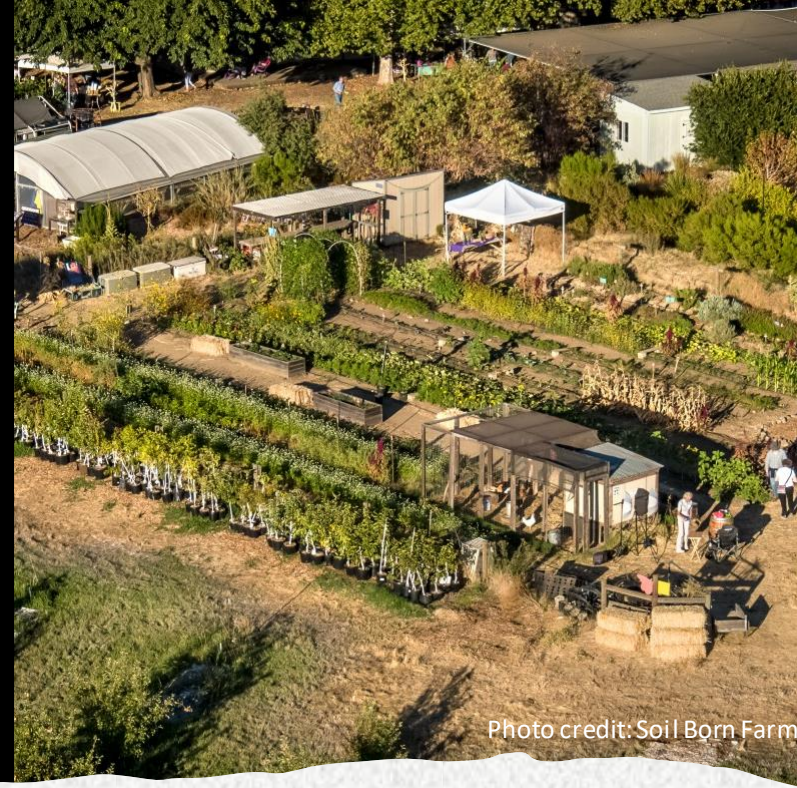


Photo credit: Soil Born Farm



Photo credit: John Swain

11. American River Ranch Habitat Restoration

Slide 1

Experiential learning programs



Photo credit: Soil Born Farm



Photo credit: Soil Born Farm

11. American River Ranch Habitat Restoration

Slide 2

3-acre project area



Photo credit: Soil Born Farm

11. American River Ranch Habitat Restoration

Slide 3

Adjacent Cordova Creek Riparian Corridor



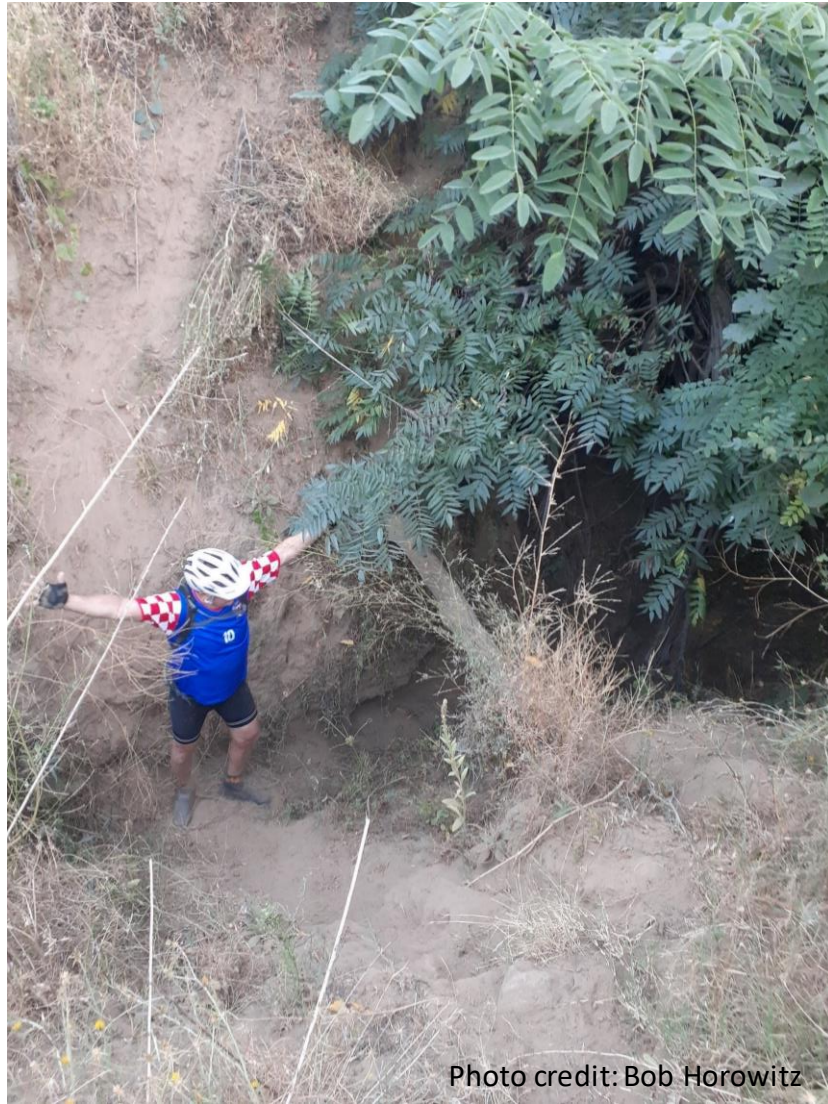


Photo credit: Bob Horowitz

12. Cal Expo and Woodlake Crossing Planning

Slide 1

Site of washed-out culvert crossing.



12. Cal Expo and Woodlake Crossing Planning

Slide 2

Upstream end of project area and stormwater channel. Beaver is known to use site as evident by remnant beaver dam pipe.



12. Cal Expo and Woodlake Crossing Planning

Slide 3

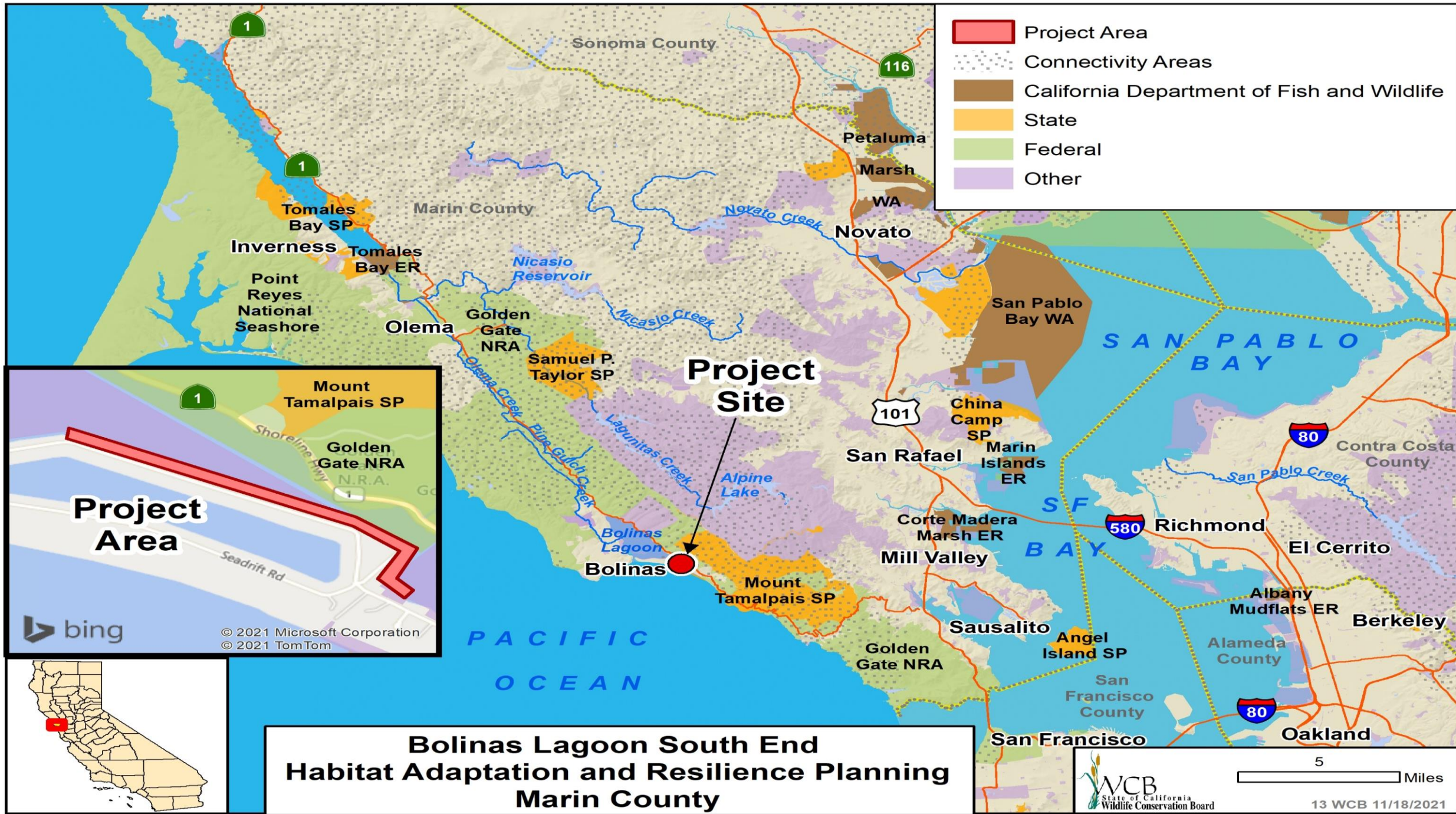
Narrow, entrenched channel with steep banks

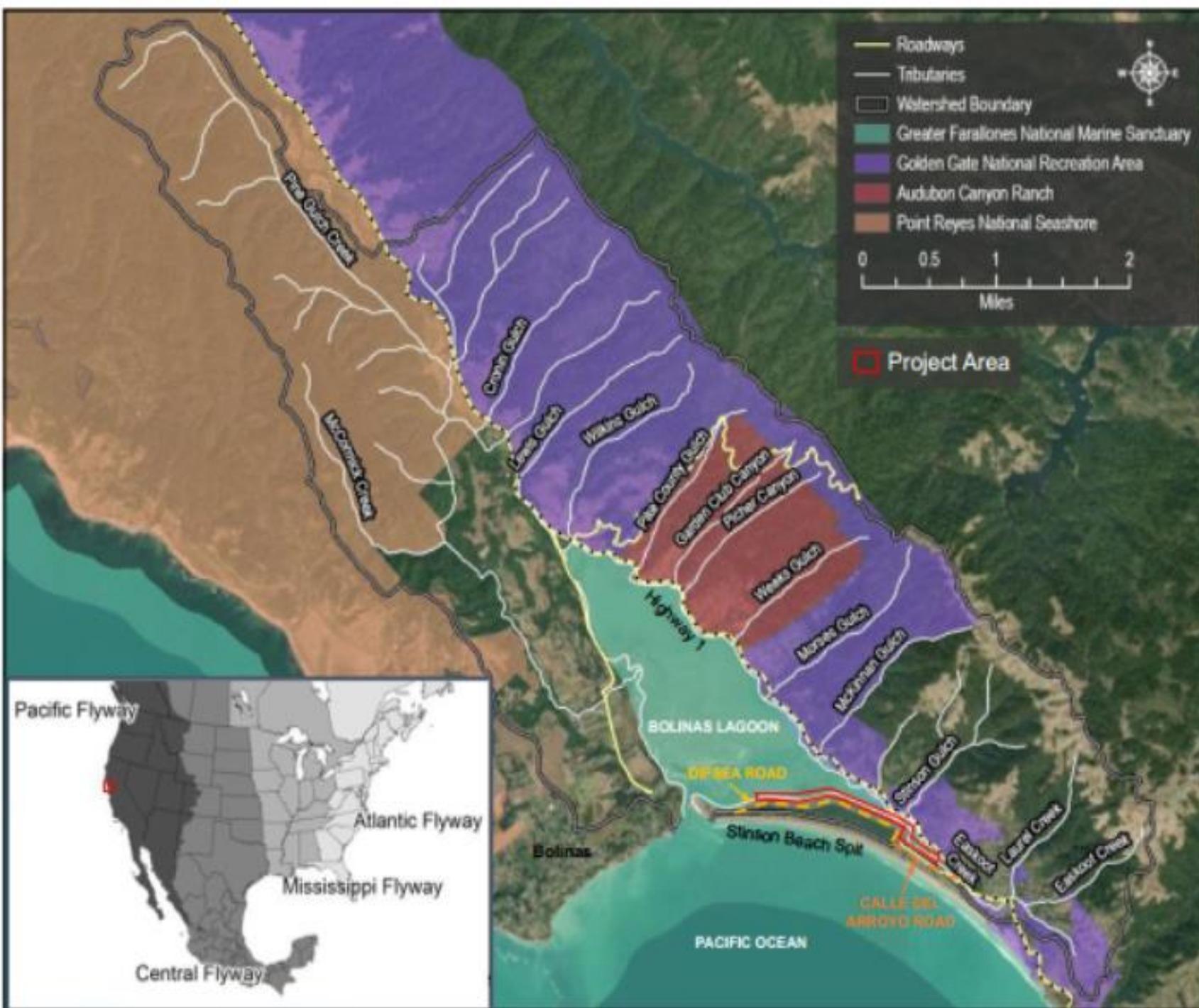


12. Cal Expo and Woodlake Crossing Planning

Slide 6

Mouth of stormwater channel into
American River

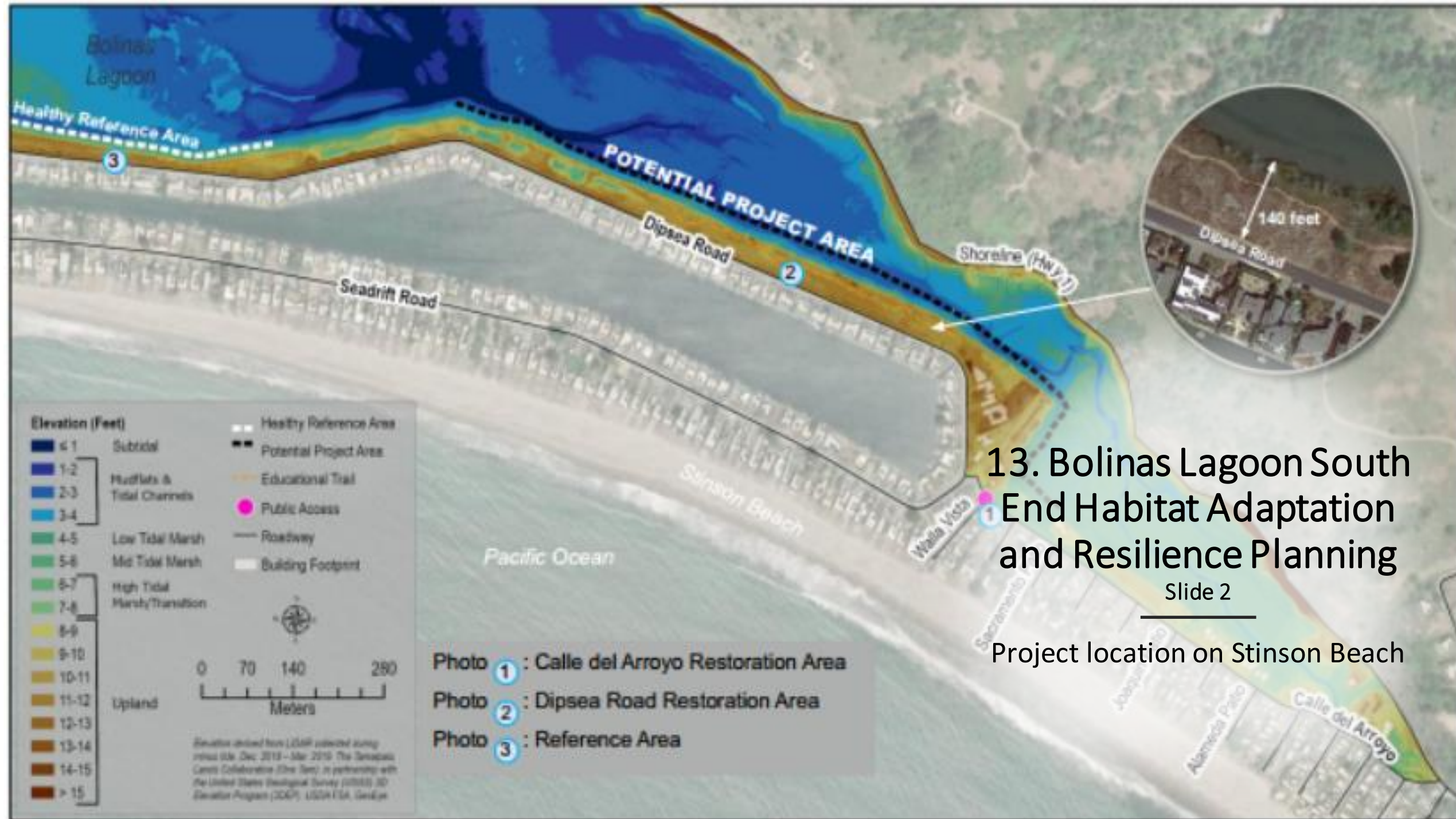




13. Bolinas Lagoon South End Habitat Adaptation and Resilience Planning

Slide 1

Regional map



13. Bolinas Lagoon South End Habitat Adaptation and Resilience Planning

Slide 2

Project location on Stinson Beach



13. Bolinas Lagoon South End Habitat Adaptation and Resilience Planning

Slide 3

The absence of transition zone habitat and low-lying wetlands intensifies high-tide flooding that submerges and overtops the shorelines back barrier. Wetland habitat in this area is unable to keep pace with changing water levels which compounds flooding in low-lying areas. Water levels breached this area 29 times in the last 5 years, with 6 breaches exceeding the shorelines back barrier by more than half a foot (AECOM Technical Memo, 2019). The submerged wetland area approximately outlines a marsh lot owned by Audubon Canyon Ranch, a project partner. (Credit: Kate Bimrose)



13. Bolinas Lagoon South End Habitat Adaptation and Resilience Planning

Slide 4

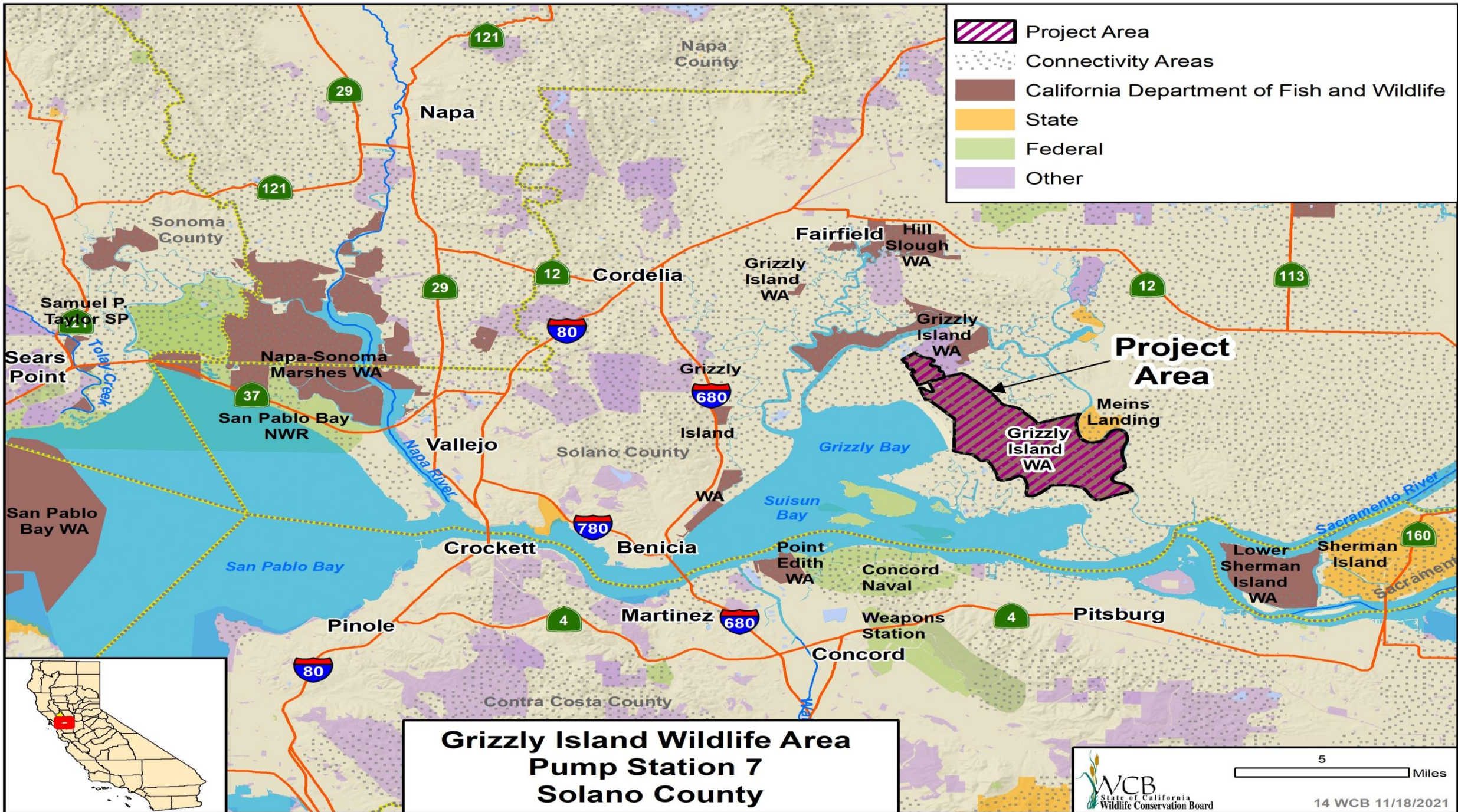
Steep, eroding embankments along the eastern span of shoreline fragment the area, compress transition zone habitat, and limit the ability of the lagoon's tidal habitats to migrate upslope in response to rising sea level and increased storm events. Embankment slope in these unstable areas, composed of loose sandy dredged material, is 2:1. (Credit: Wendy Kordesch)

13. Bolinas Lagoon South End Habitat Adaptation and Resilience Planning

Slide 5

- The western shoreline adjacent to the project area has a stable shoreline with a healthier ecosystem and a more natural transition zone slope. Twelve acres along this shoreline will be used as a Healthy Reference Area to draw from and apply to both monitoring and project design. (Credit: Wendy Kordesch)





14. Grizzly Island Wildlife Area Pump Station 7

Slide 1

New location of Pump Station 7, with
Pump Station 5 in the background.



14. Grizzly Island Wildlife Area Pump Station 7

Slide 2

Pump Station 5 discharge, new Pump
Station 7 discharge will be adjacent.





14. Grizzly Island Wildlife Area Pump Station 7

Slide 3

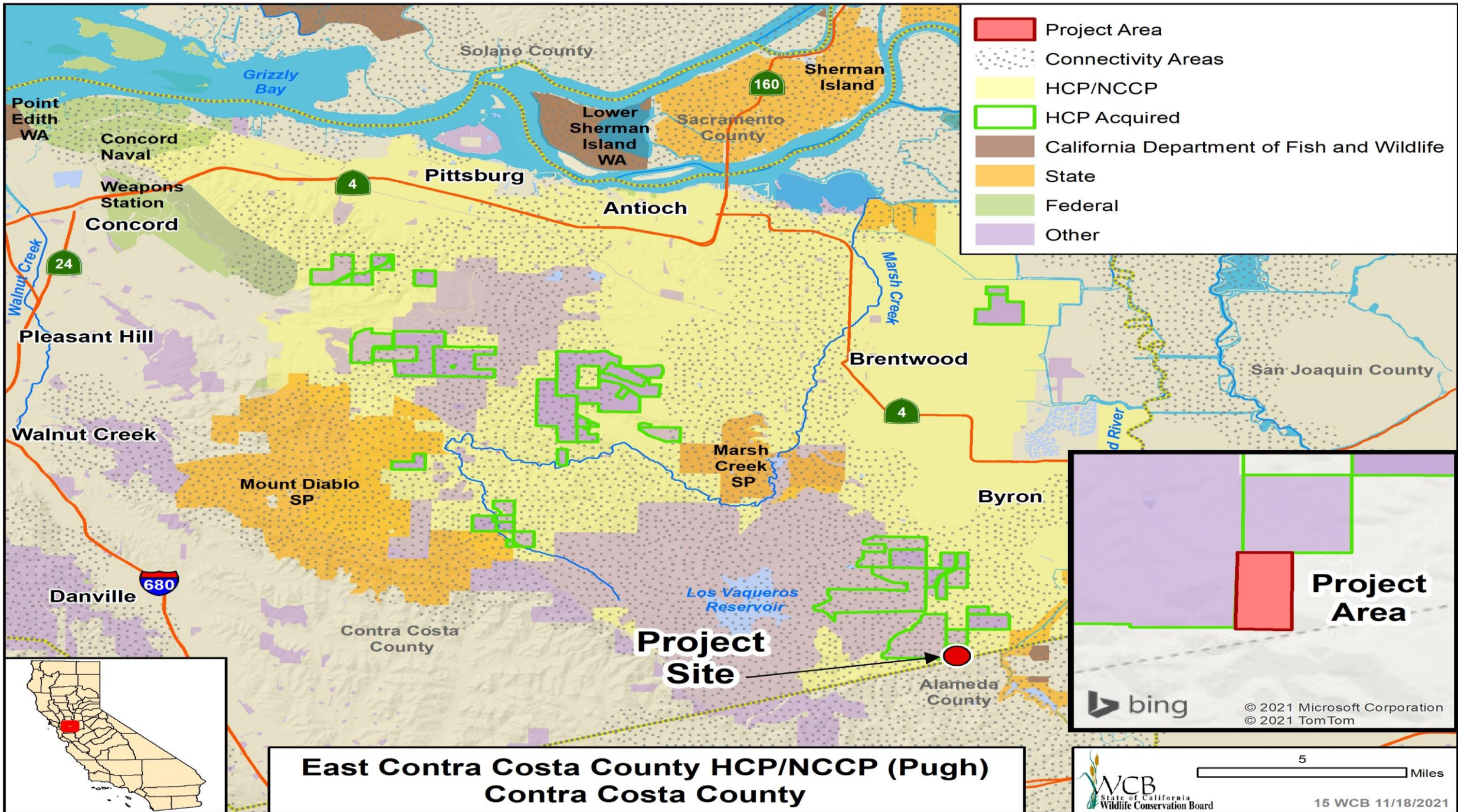
Location of new Pump Station 7 canal
gate.



14. Grizzly Island Wildlife Area Pump Station 7

Slide 4

New Pump Station 7 will
supply water to wetland field
15.





15. East Contra Costa County HCP/NCCCP (Pugh)

Slide 1

View from the northern portion of the
property looking south.



15. East Contra Costa County HCP/NCCCP (Pugh)

Slide 2

View of the property looking north.

A photograph of five white wind turbines situated on a grassy, rolling hill. The turbines are arranged in a line across the slope, with the one on the right being the most prominent. The foreground is filled with dark, jagged rocks and dry, brownish grass. The sky is a clear, bright blue.

15. East Contra Costa County HCP/NCCCP (Pugh)

Slide 3

View of the five wind turbines located on the property.

15. East Contra Costa County HCP/NCCP (Pugh)

Slide 4

Possible spring fed pond on the
property..

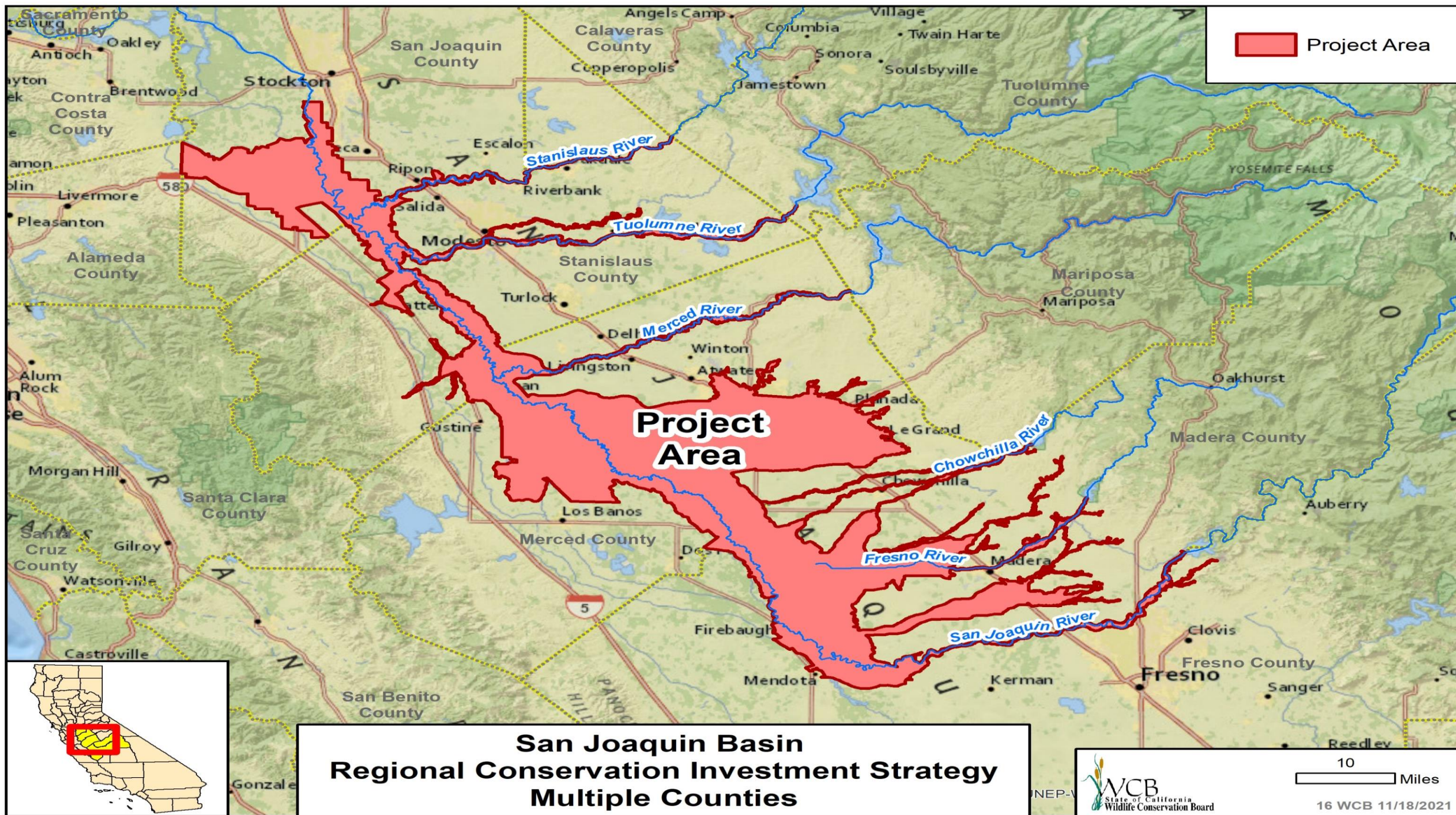




15. East Contra Costa County HCP/NCCP (Pugh)

Slide 5

Onsite structure which
will be removed prior to
close of escrow.






16. San Joaquin Basin Regional Conservation Investment Strategy

Slide 1

- Aerial view of the San Joaquin River
- Credit: CA Department of Water Resources



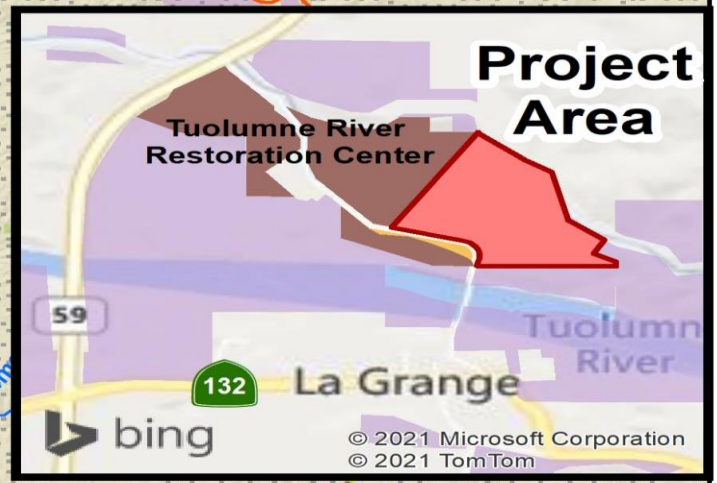
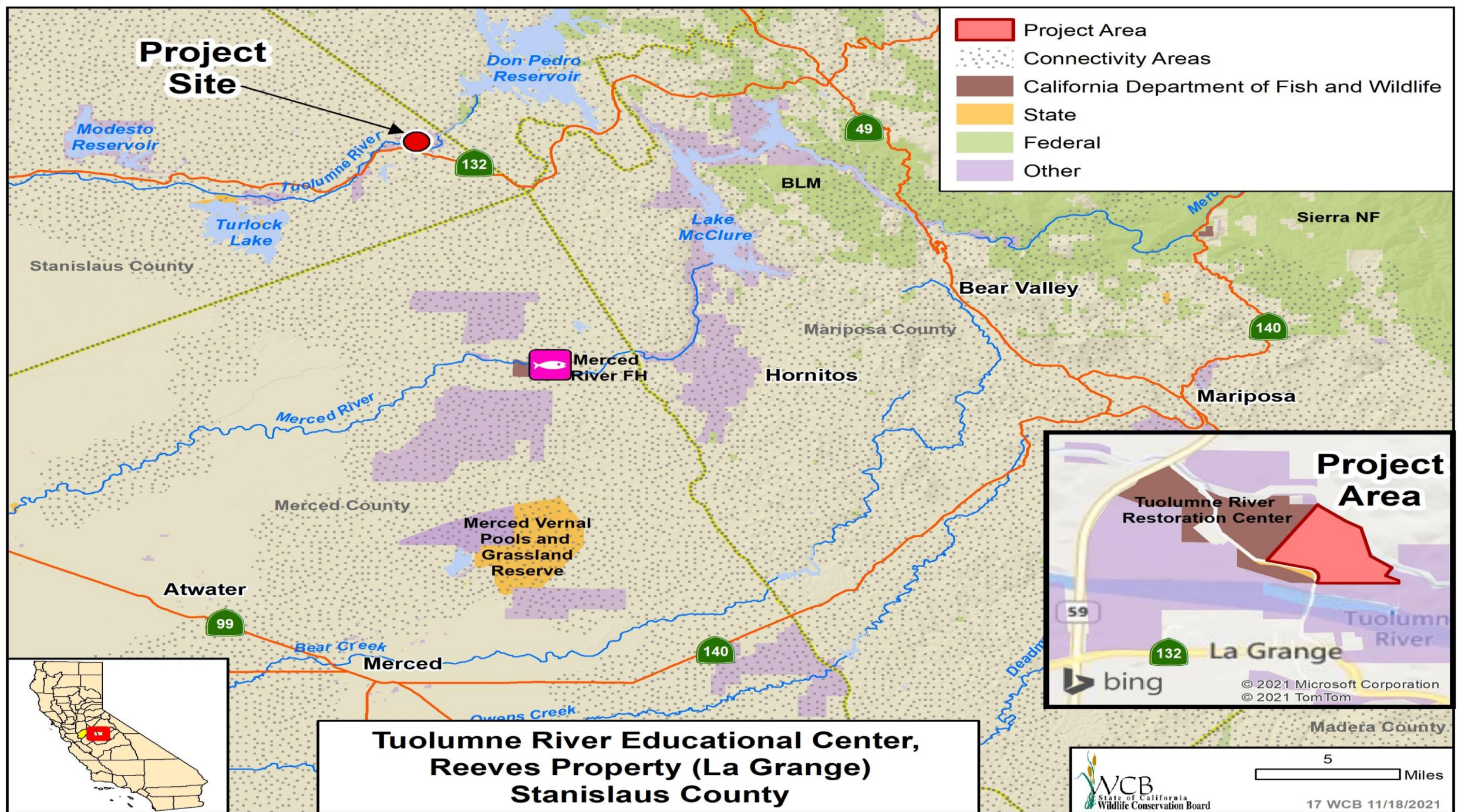
16. San Joaquin Basin Regional Conservation Investment Strategy

Slide 2

- San Joaquin River at the San Joaquin River National Wildlife Refuge
- Credit: Lee Eastman

Project Site

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



**Tuolumne River Educational Center,
Reeves Property (La Grange)
Stanislaus County**



5 Miles



17. Tuolumne River Educational Center, Reeves Property (La Grange)

Slide 1

View of property looking
north.

A photograph of a gravel road winding through a wooded area. The road is light-colored and leads towards a riverbank in the distance. The trees are dense and green, with some sunlight filtering through the canopy. The foreground is a mix of gravel and dry grass.

17. Tuolumne River Educational Center, Reeves Property (La Grange)

Slide 2

View of roadway on Property leading towards riverbank.



17. Tuolumne River Educational Center, Reeves Property (La Grange)

Slide 3

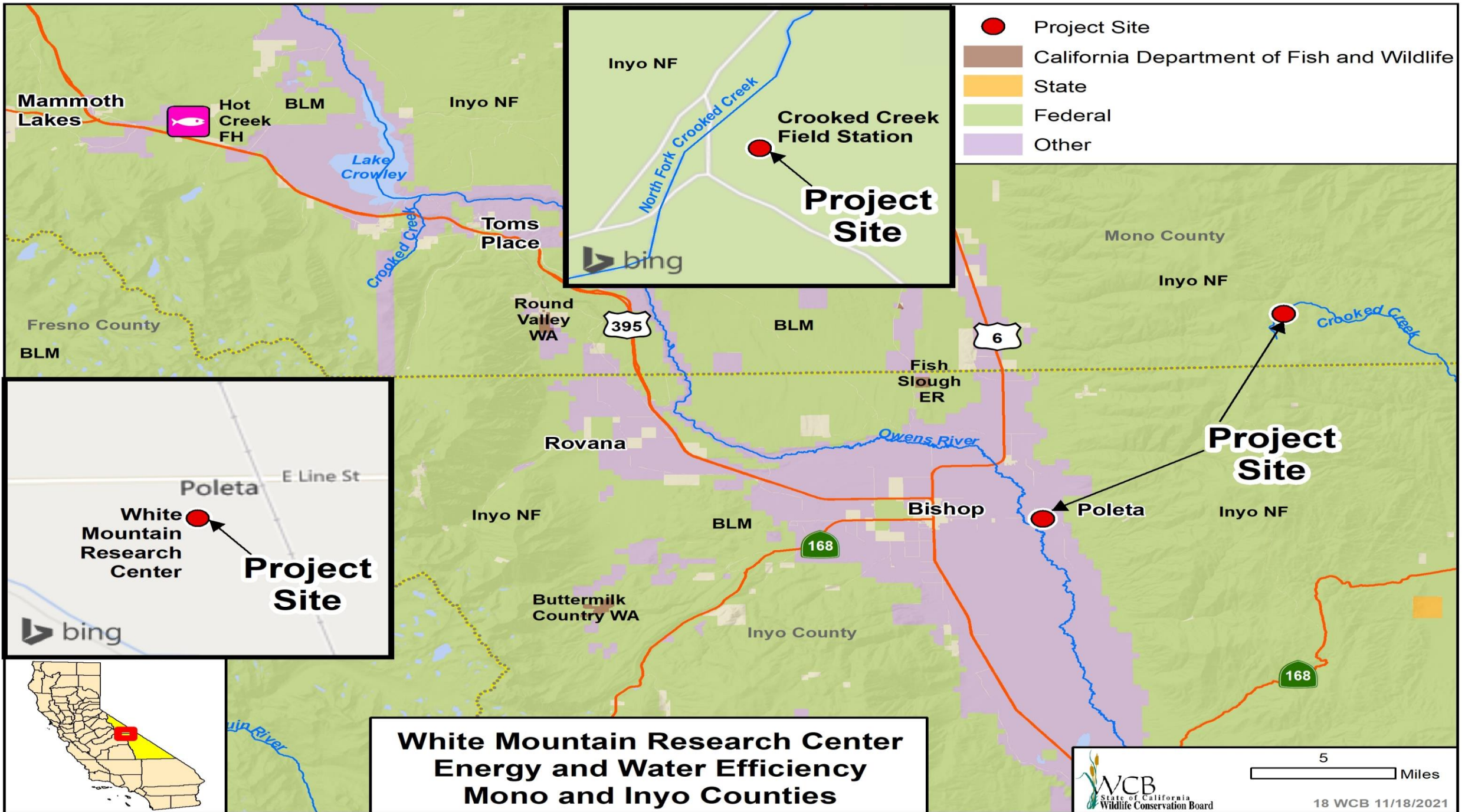
View from the Property looking west towards the Tuolumne River.



17. Tuolumne River Educational Center, Reeves Property (La Grange)

Slide 4

View of the Tuolumne River, just south of the Property boundary line.





18. White Mountain Research Center Energy and Water Efficiency

Slide 1



Topographical map, right – WMRC Crooked Creek Station and left – WMRC Owens Valley Station

18. White Mountain Research Center Energy and Water Efficiency

Slide 2



Crooked Creek Station battery bank – solar panels and garage



Proposed sight for
New Domestic Well

18. White Mountain Research Center Energy and Water Efficiency

Slide 3

Proposed location site for new
domestic well – aerial view.



18. White Mountain Research Center Energy and Water Efficiency

Slide 4

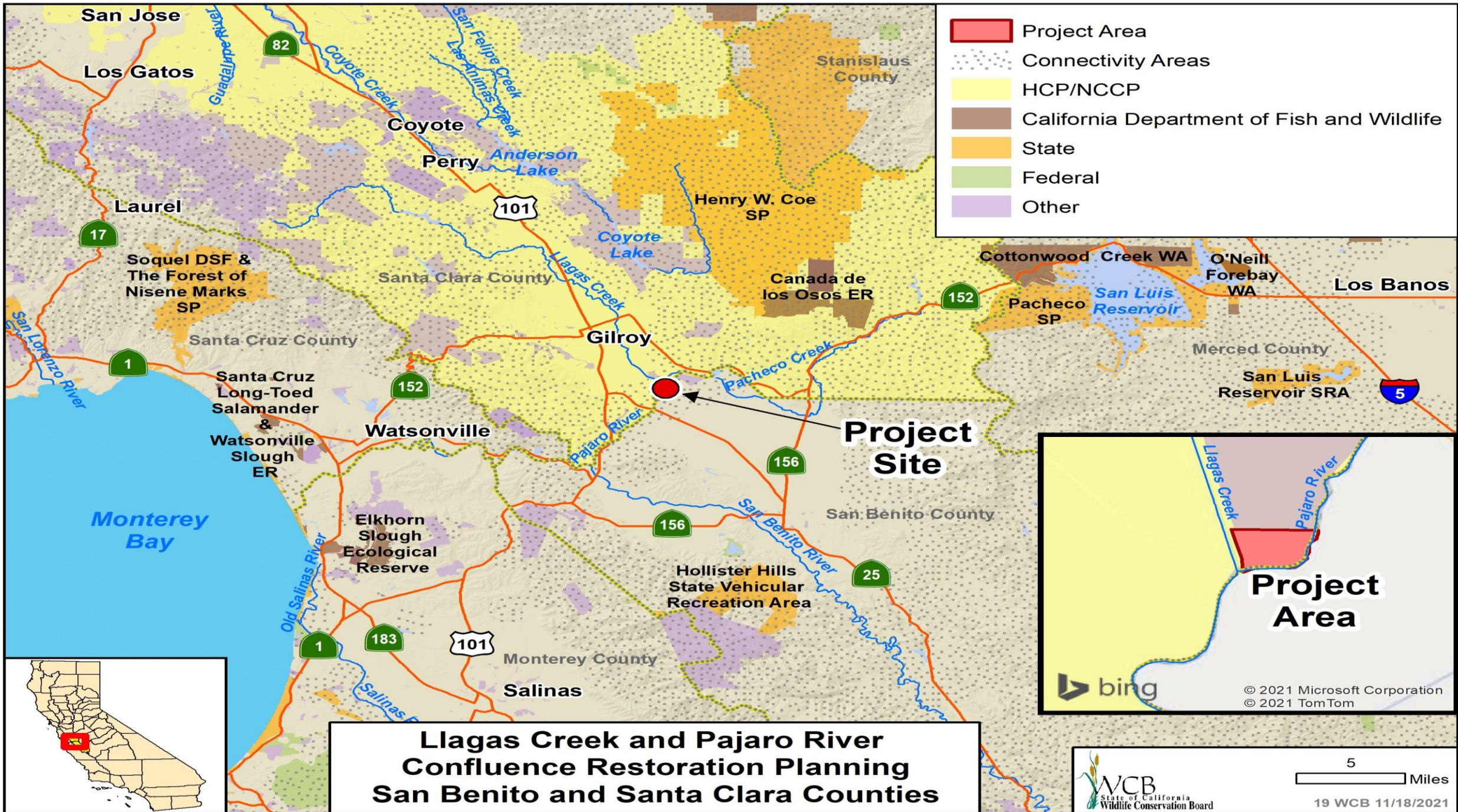
Owens Valley station 600Amp service upgrade location – aerial view.




18. White Mountain Research Center Energy and Water Efficiency

Slide 5

Owens Valley Station 32kw Solar Carport parking structure location – aerial view.





19. Llagas Creek and Pajaro River Confluence Restoration Planning

Slide 1

Llagas Creek and Pajaro River
Confluence, looking downstream



19. Llagas Creek and Pajaro River Confluence Restoration Planning

Slide 2

Facing west toward the confluence
from behind the levees, where
restoration is proposed. The Pajaro
River is on the left and Llagas Creek
is on the right.



19. Llagas Creek and Pajaro River Confluence Restoration Planning

Slide 3

Existing agricultural fields behind levees at the Llagas Creek and Pajaro River confluence, looking west at Llagas Creek from the Pajaro River (left) and looking east along the Pajaro River (right).



19. Llagas Creek and Pajaro River Confluence Restoration Planning

Slide 4

Left: Llagas Creek and Pajaro River confluence, looking south from the levee.

Right: Pajaro River and existing levee immediately upstream of the Pajaro River confluence.





20. Campbell Ranch, Expansion 1

Slide 1

Typical coastal scrub habitat found on the Campbell Ranch

A landscape photograph of Campbell Ranch showing oak woodlands, grasslands, and a season. The foreground is a field of dry, golden-brown grass. In the middle ground, there are several large, mature oak trees with dense green foliage. The background shows rolling hills under a clear blue sky.

20. Campbell Ranch, Expansion 1

Slide 2

Oak woodlands, grasslands, and season provide habitat for CTS on the Campbell Ranch.



20. Campbell Ranch, Expansion 1

Slide 3

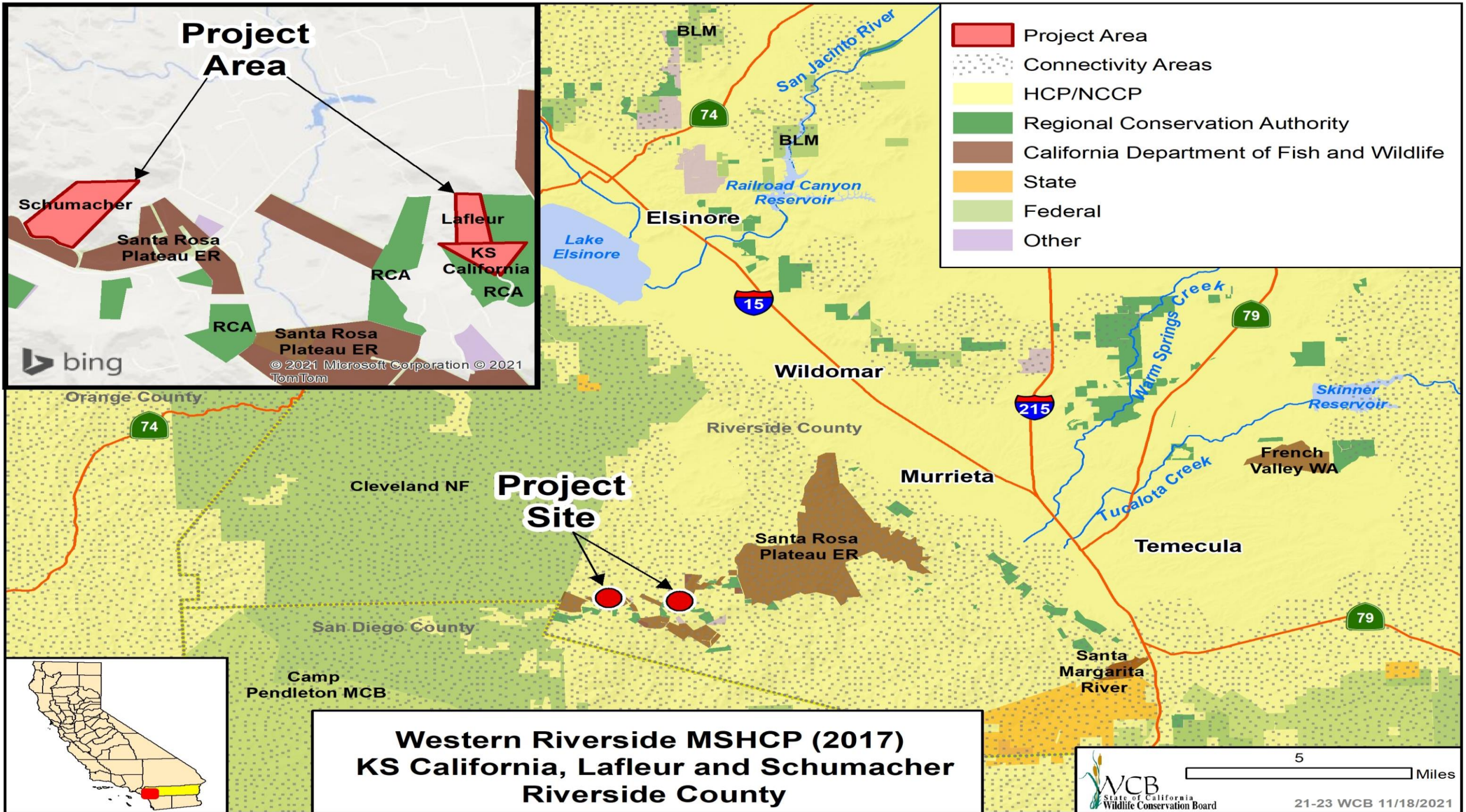
The higher elevations on the Campbell Ranch provide dryer scrub type habitats.



20. Campbell Ranch, Expansion 1

Slide 4

Typical habitat types found on the Campbell Ranch.



**Western Riverside MSHCP (2017)
KS California, Lafleur and Schumacher
Riverside County**



21. Western Riverside MSHCP (2017) KS California

Slide 1

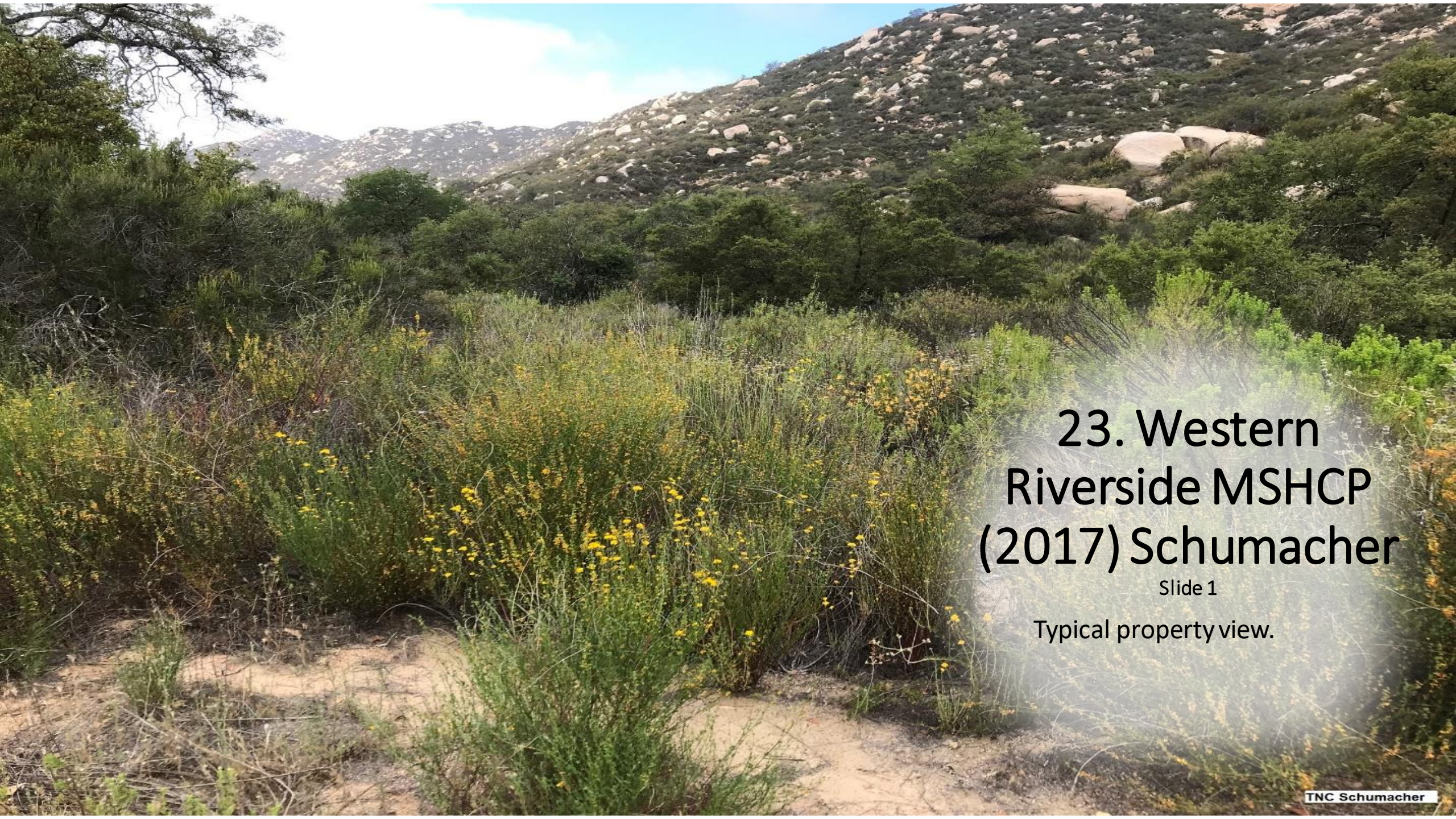
Ridgetop view overlooking property.



22. Western Riverside MSHCP (2017) Lafleur

Slide 1

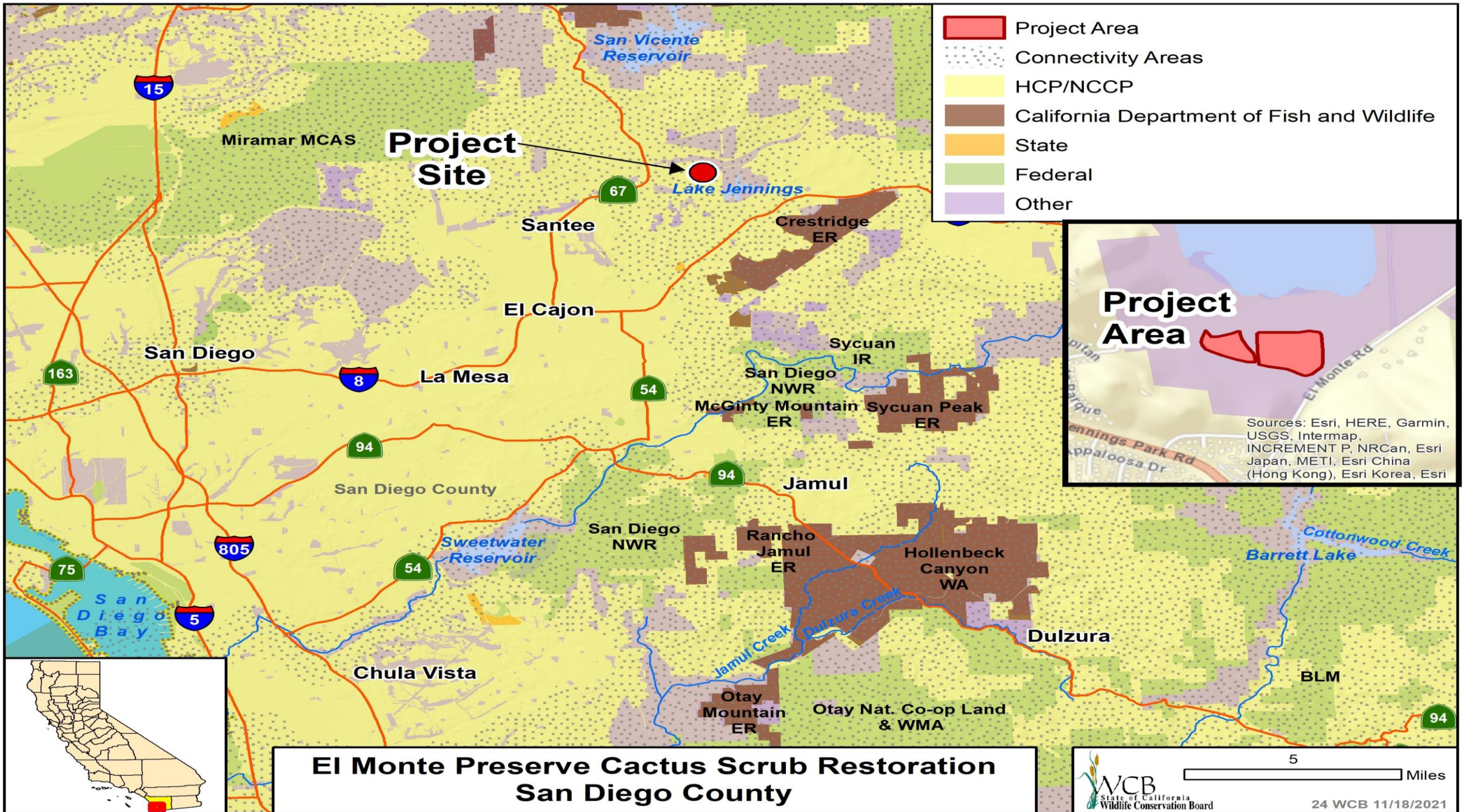
Ridge view overlooking the riparian
area.



23. Western Riverside MSHCP (2017) Schumacher

Slide 1

Typical property view.





24. El Monte Preserve Cactus Scrub Restoration

Slide 1

Images courtesy of (from left to right) San Dieguito Regional Park, CDFW,
Earth Discovery Institute



24. El Monte Preserve Cactus Scrub Restoration

Slide 2

Genetic clusters of coastal cactus wren in San Diego County.



24. El Monte Preserve Cactus Scrub Restoration

Slide 3

Proximity to existing habitat areas with nesting cactus wren populations.



24. El Monte Preserve Cactus Scrub Restoration

Slide 4

Portion of the proposed El Monte cactus scrub creation site.



25. Morrison Pond Restoration and Enhancement

Slide 1

Morrison Pond, Facing North



25. Morrison Pond Restoration and Enhancement

Slide 2

Example of Proposed Enhancement
Area



25. Morrison Pond Restoration and Enhancement

Slide 3

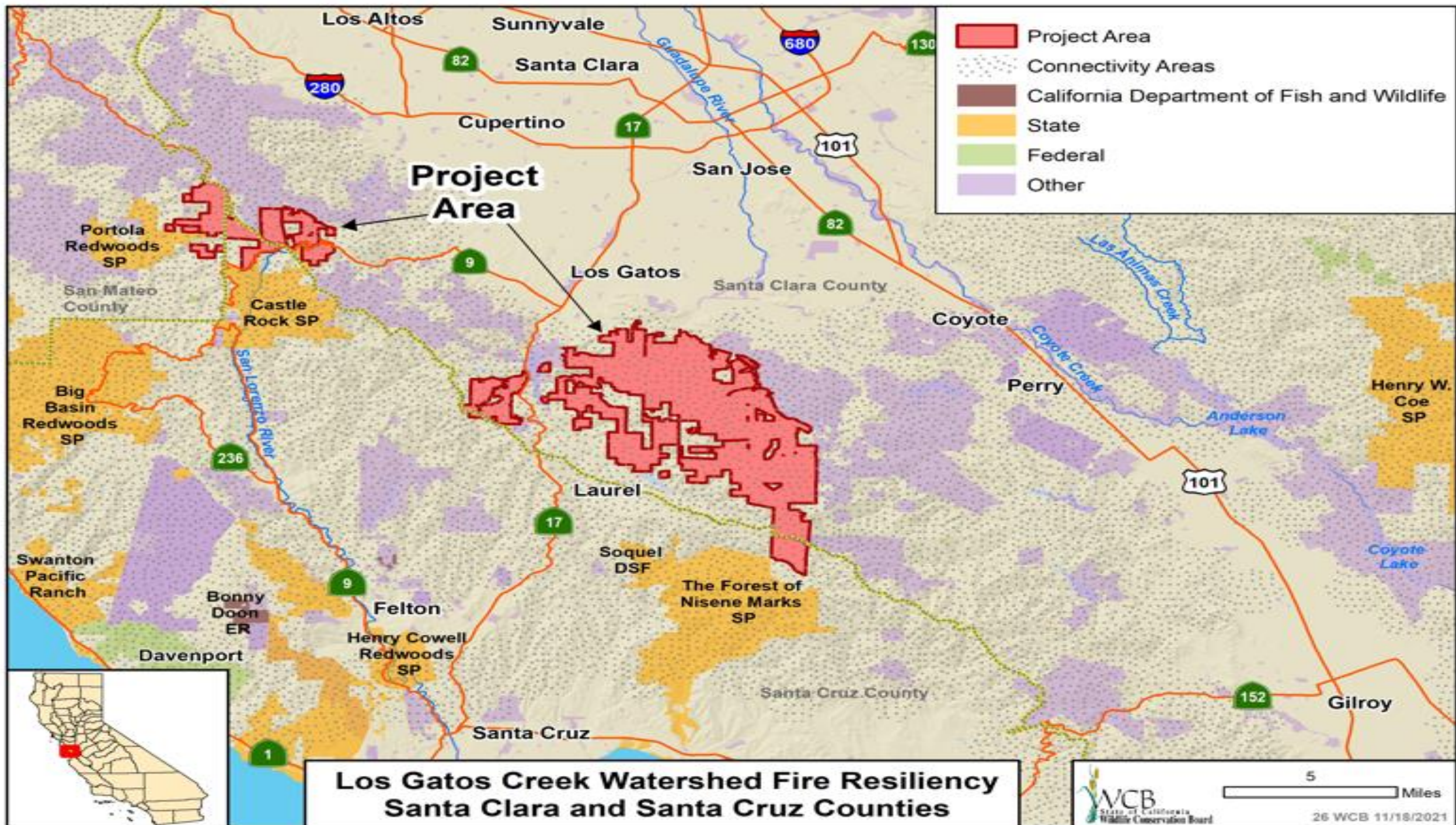
Proposed Enhancement Areas



25. Morrison Pond Restoration and Enhancement

Slide 4

Proposed Coastal Sage Scrub Restoration Area, facing
southeast (left) and northeast (right).



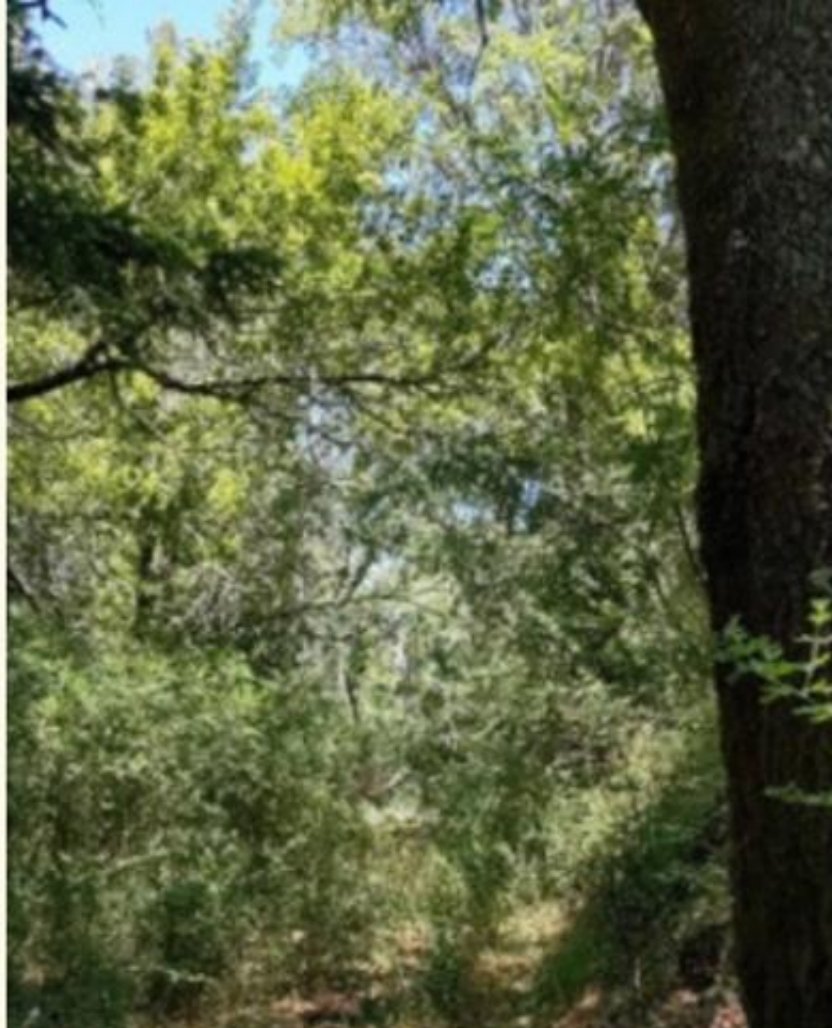


26. Los Gatos Creek Watershed Fire Resiliency

Slide 1

Sierra Azul Open Space Preserve —
areas to be thinned.

(credit: MROSD)



26. Los Gatos Creek Watershed Fire Resiliency

Slide 2

Bear Creeks Redwoods Open Space Preserve – areas to be thinned.

(credit: MROSD)



26. Los Gatos Creek Watershed Fire Resiliency

Slide 3

Bear Creeks Redwoods Open Space Preserve – former tree plantation.

(credit: MROSD)

26. Los Gatos Creek Watershed Fire Resiliency

Slide 4

Sierra Azul Open Space Preserve –
eucalyptus grove.

(credit: MROSD)



26. Los Gatos Creek Watershed Fire Resiliency

Slide 5

Bear Creeks Redwoods Open
Space Preserve – manzanitas to
be protected.

(credit: MROSD)



26. Los Gatos Creek Watershed Fire Resiliency

Slide 6

Bear Creek Redwoods Open
Space Preserve - woodrat nest
flagged for protection.

(credit: MROSD)





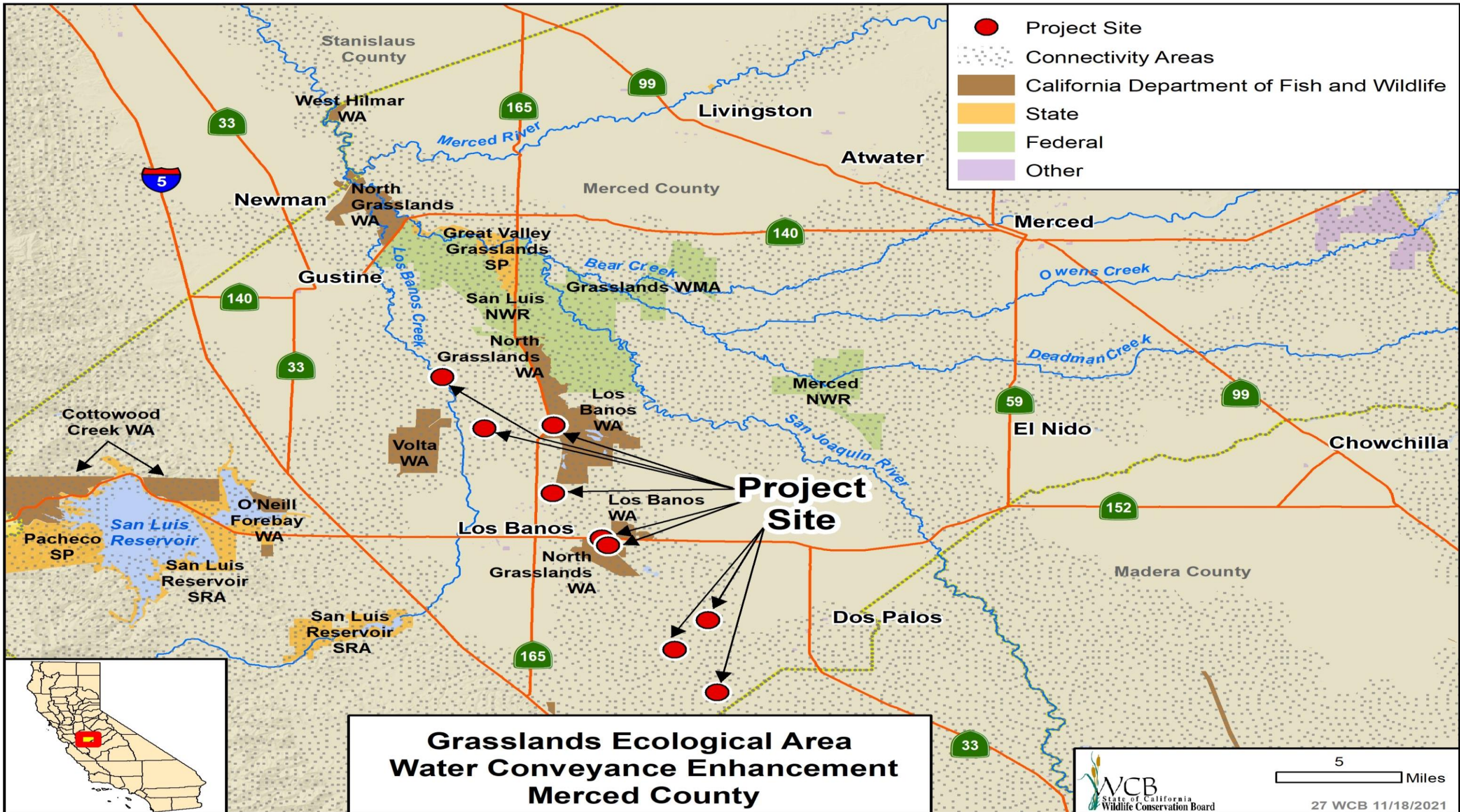
26. Los Gatos Creek Watershed Fire Resiliency

Slide 7

Bear Creek Redwoods Open Space
Preserve - ponded area.

(credit: MROSD)





An aerial photograph showing a concrete headwall and culvert structure that appears to be non-functional. The structure is situated on a dirt bank next to a body of water (Mud Slough). The culvert opening is blocked by debris and vegetation. Orange safety fencing is visible along the edge of the dirt bank. The surrounding area is a mix of dry earth and sparse green vegetation.

27. Grasslands Ecological Area Water Conveyance Enhancement

Slide 1

Non-functional headwall and culvert at
the bypass of Mud Slough.

27. Grasslands Ecological Area Water Conveyance Enhancement

Slide 2

Degraded and undersized water control
structure on the San Luis Canal.





27. Grasslands Ecological Area Water Conveyance Enhancement

Slide 3

Mosquito Ditch – Channel to be
refurbished.



27. Grasslands Ecological Area Water Conveyance Enhancement

Slide 4

San Luis Canal - Channel to be
refurbished.

An aerial photograph showing a concrete headworks structure at the Agatha Headwaters. The structure is severely degraded, with a large section of the concrete wall collapsed into the water. The surrounding area is eroded, with exposed soil and debris. A dirt road runs along the top of the structure, and a body of water is visible in the background.

27. Grasslands Ecological Area Water Conveyance Enhancement

Slide 5

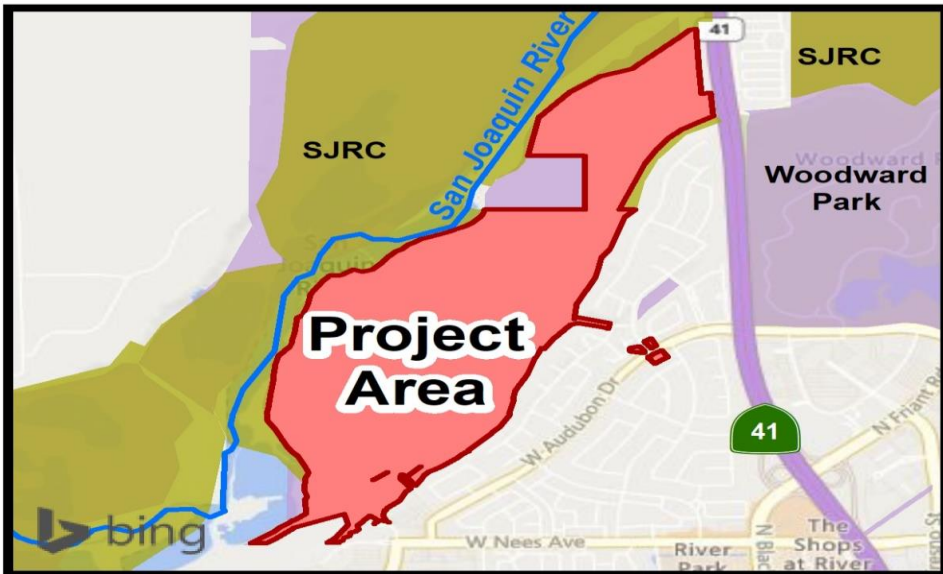
Degraded Agatha Headworks - key
water delivery channel will be
replaced.

An aerial photograph showing a wetland area with a drainage ditch. The ditch runs diagonally from the top right towards the bottom center. To the left of the ditch, there is a white building with a flat roof and a small water tank. To the right of the ditch, there is a gravel area with some equipment, including a yellow container and a red structure. The background shows a large body of water and distant hills.

27. Grasslands Ecological Area Water Conveyance Enhancement

Slide 6

Undersized drainage infrastructure
on the 240 ditch to be replaced to
alleviate flooding.



2 Miles

28 WCB 11/18/2021



28. San Joaquin River Parkway, River West Eaton Trail Extension Planning

Slide 1
Proposed Project Map



28. San Joaquin River Parkway, River West Eaton Trail Extension Planning

Slide 2

Future Palm Avenue Parking Lot Access Road, photo credit to City of Fresno



28. San Joaquin River Parkway, River West Eaton Trail Extension Planning

Slide 3

Future Riverview access point, photo credit to City of Fresno

A photograph of a suburban street intersection. In the foreground, a paved road with double yellow lines leads towards the intersection. On the left, a large tree casts a shadow over the road. In the background, there are several houses with lawns and trees. Two red octagonal stop signs are visible at the intersection. A street sign on a pole indicates 'ST 100'. The sky is clear and blue.

28. San Joaquin River Parkway, River West Eaton Trail Extension Planning

Slide 4

Future Signalized Intersection of Del Mar and Audubon, photo credit to City of Fresno

A photograph showing a paved asphalt road that leads to a closed metal gate. The gate is made of chain-link fencing and is situated in a dry, grassy field. In the background, there are some trees and a clear blue sky. Several power lines run across the top of the image. The road has some white markings and tire tracks.

28. San Joaquin River Parkway, River West Eaton Trail Extension Planning

Slide 5

Future Perrin Ave Access Point, photo credit to City of Fresno





Aerial view of City of Salinas
and Carr Lake Basin (center)

29. Carr Lake Restoration Planning

Slide 1



Image courtesy Monterey County Weekly.

An aerial photograph of a landscape featuring Carr Lake. A portion of the lake and surrounding area is highlighted in yellow, while a larger adjacent area is marked with a black cross-hatch pattern. The surrounding terrain includes green fields, some buildings, and a road.

29. Carr Lake Restoration Planning

Slide 3

Carr Lake Basin, 73-acre segment purchased by BSLT (highlighted) for:

- Wetland/riparian habitat restoration (67 acres)
- Improve water quality
- Maintain flood flows
- Create neighborhood park (remaining 6 acres)

Photo courtesy of The Salinas Californian



29. Carr Lake Restoration Planning

Slide 4

Confluence of Hospital Creek (left)
and Gabilan Creek (right).

Photo by Big Sur Land Trust.



29. Carr Lake Restoration Planning

Slide 5

Carr Lake Basin, flooding in 2015. Photo by Big Sur Land Trust.



29. Carr Lake Restoration Planning

Slide 6

Native Plant Restoration
Demonstration Garden. Photo by Big
Sur Land Trust.



29. Carr Lake Restoration Planning

Slide 7

School Planting Day at
Carr Lake Native Plant
Restoration
Demonstration Garden.

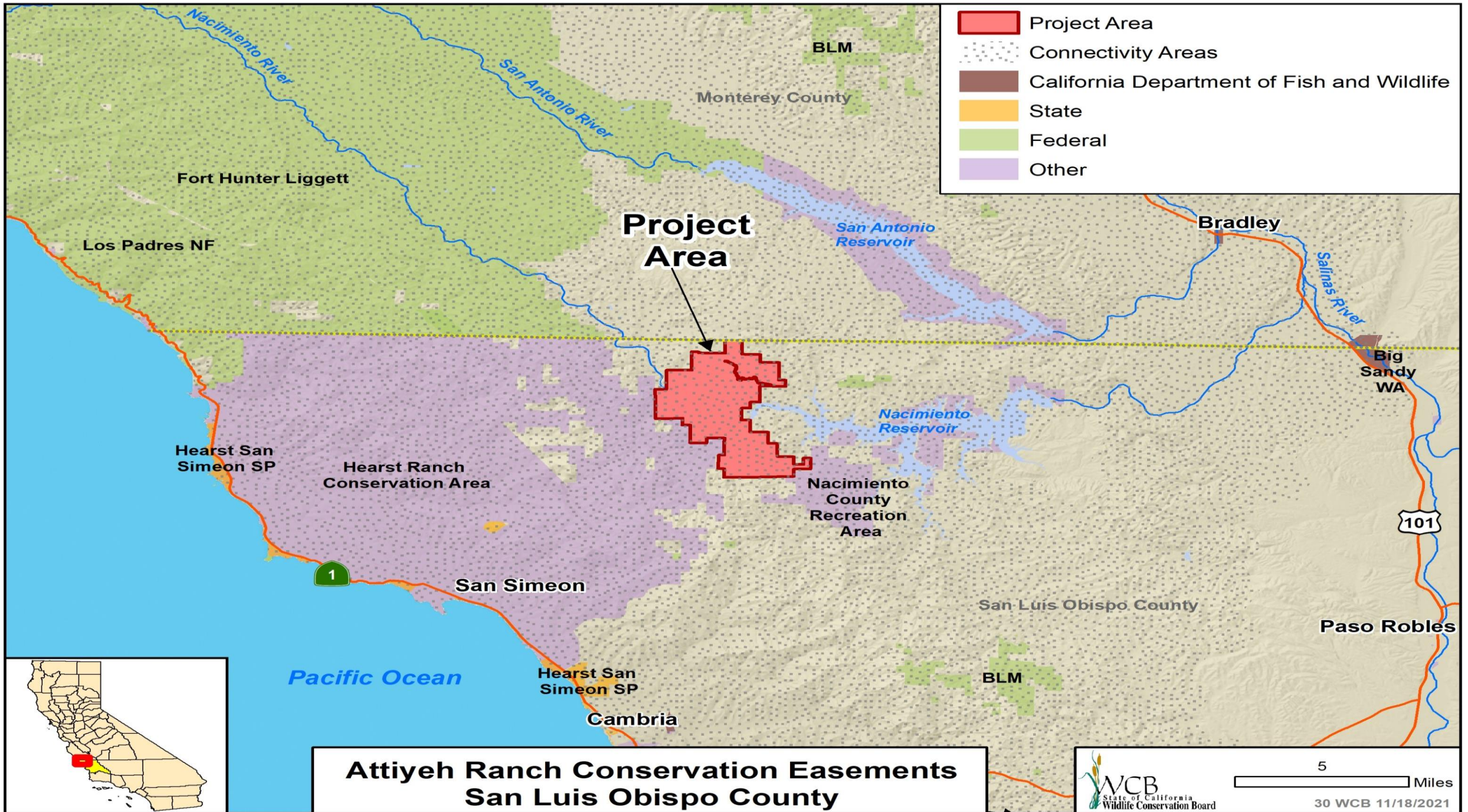
Photo by Big Sur Land Trust.

29. Carr Lake Restoration Planning

Slide 8

Carr Lake site during a tour for local residents and students. Gabilan Mountains in background.

Photo by, Big Sur Land Trust.





30. Attiyeh Ranch Conservation Easements

Slide 1

- Attiyeh Ranch –
Nacimiento River



30. Attiyeh Ranch Conservation Easements

Slide 2

- Attiyeh Ranch —
Nacimiento River



30. Attiyeh Ranch Conservation Easements

Slide 3

- Attiyeh Ranch —
Naciminto River and
rock outcropping



30. Attiyeh Ranch Conservation Easements

Slide 4

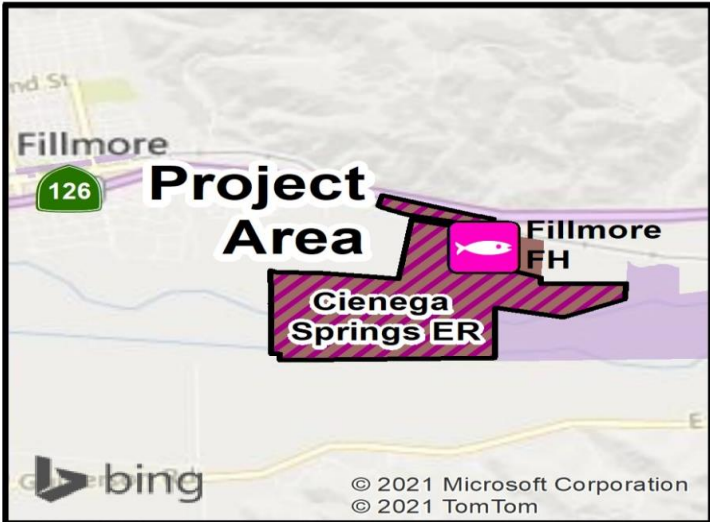
- Attiyeh Ranch —
Nacimiento River, gravel
bar

A landscape photograph showing a rolling hillside covered in a dense field of purple wildflowers, likely bluebonnets. The hillside slopes upwards from the foreground towards the right. In the background, there are more hills and a line of green trees under a clear, bright blue sky. The overall scene is bright and sunny.

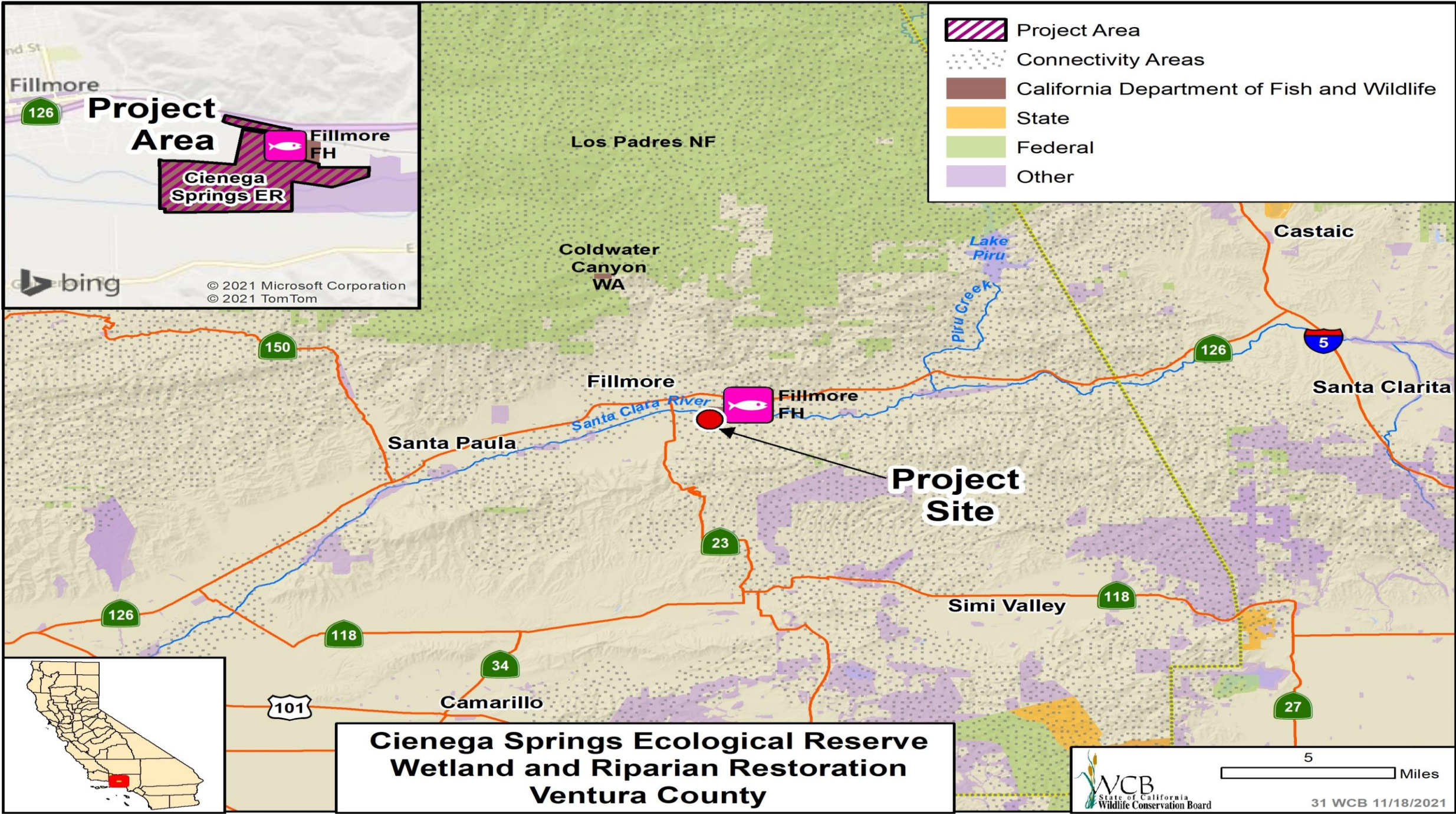
30. Attiyeh Ranch Conservation Easements

Slide 5

- Attiyeh Ranch – Summer wildflowers



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



**Cienega Springs Ecological Reserve
Wetland and Riparian Restoration
Ventura County**



5 Miles



31. Cienega Springs Ecological Reserve Wetland and Riparian Restoration

Slide 1

Aerial Photo of Ecological
Reserve



31. Cienega Springs
Ecological Reserve
Wetland and Riparian
Restoration
Slide 2

- Aerial photo of project area

A landscape photograph showing a dry, grassy field with a dirt path leading towards two palm trees in the distance. In the background, there are mountains under a clear blue sky. The foreground is filled with tall, dry grass and some shrubs.

31. Cienega Springs Ecological Reserve Wetland and Riparian Restoration

Slide 3

Area to be revegetated,
with non-native palm
tress in background



31. Cienega Springs Ecological Reserve Wetland and Riparian Restoration

Slide 4

Area to be revegetated with
native plants



31. Cienega Springs Ecological Reserve Wetland and Riparian Restoration

Slide 5

Areas of arundo to be treated



31. Cienega Springs Ecological Reserve Wetland and Riparian Restoration

Slide 6

Riparian area to be revegetated





32. West Coyote Hills

Slide 2

The Property is part of an approximately 510-acre tract of land that is viewed as prime real estate for residential development since it is the largest remaining tract of undeveloped land in north Orange County. Photo courtesy of City of Fullerton

32. West Coyote Hills

Slide 3

- Naturally occurring vegetation on the Property includes coastal sage scrub, clustered tarweed, elderberry woodland, southern cactus scrub, and toyon sambucus chaparral. Photo courtesy of City of Fullerton



32. West Coyote Hills

Slide 4

The Property is located within the Central/Coastal Orange County NCCP/HCP. Photo courtesy of City of Fullerton

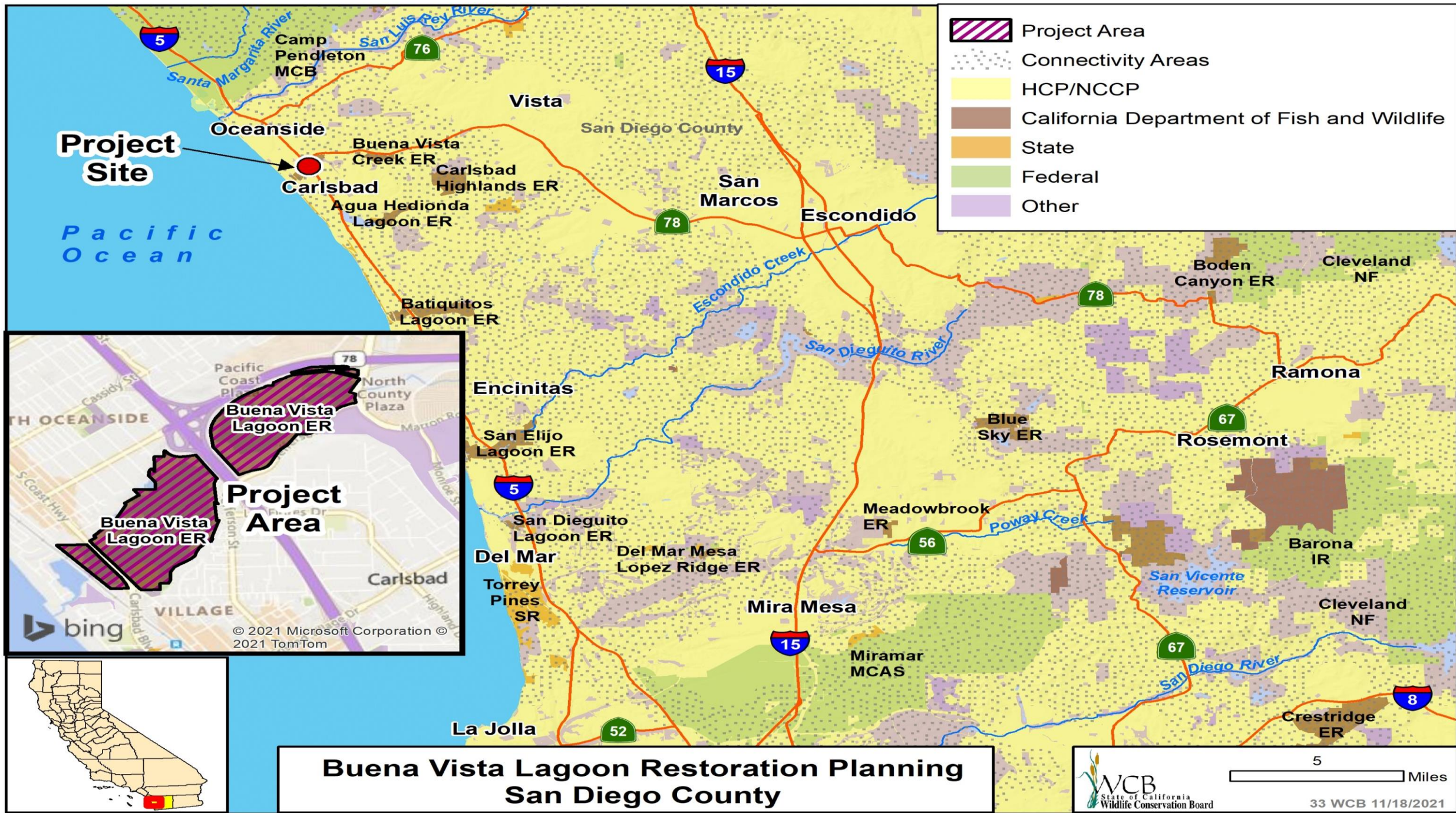


32. West Coyote Hills

Slide 5

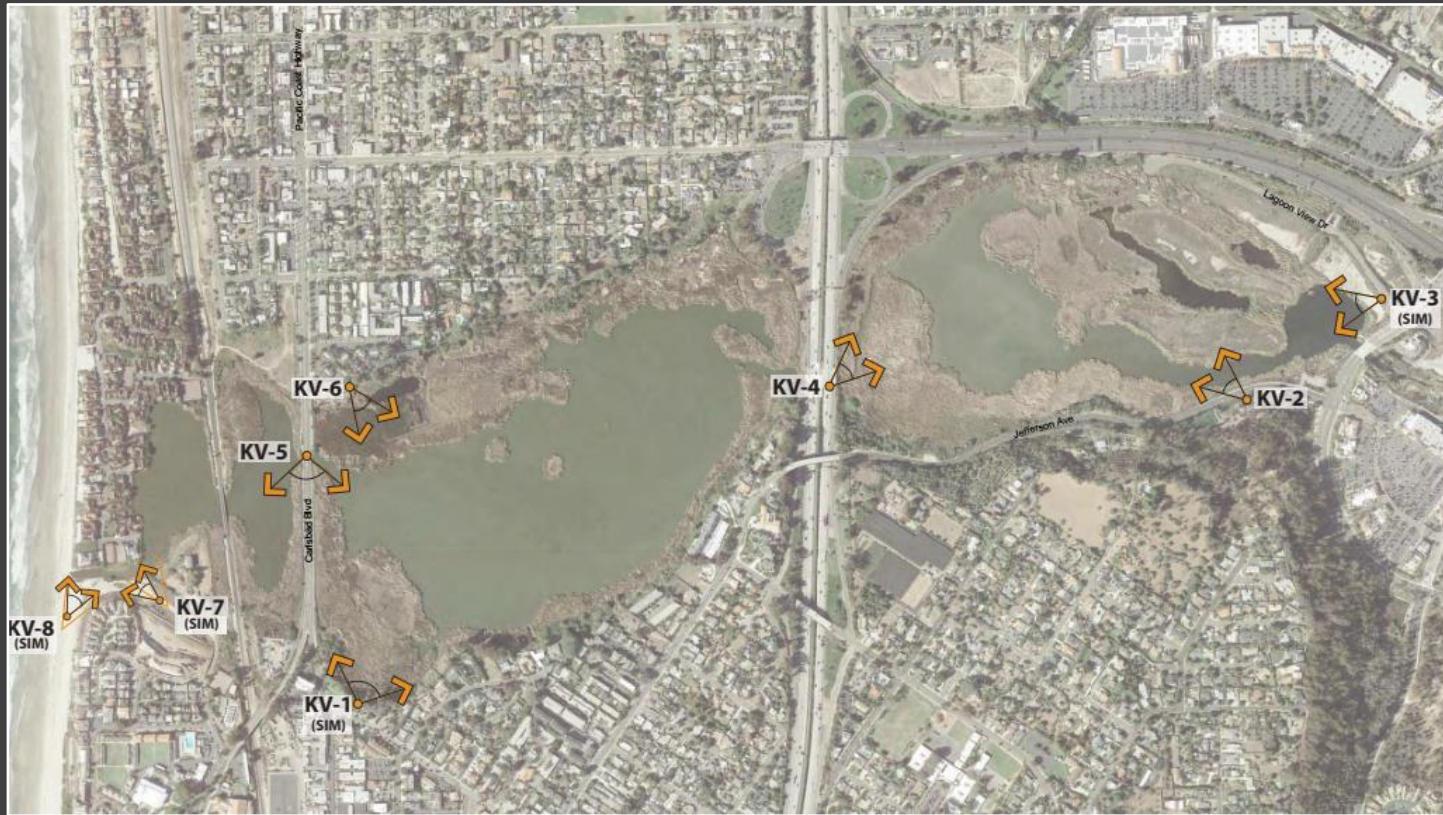
- This Project would eliminate the development of one of two proposed residential neighborhoods. Photo courtesy of City of Fullerton





33. Buena Vista Lagoon Restoration Planning

Slide 1



Buena Vista Lagoon

- Tidal-influenced saltwater system during dry conditions
- River-influenced freshwater system during wet conditions
- Weir installed at the lagoon outlet precludes saltwater from entering the lagoon
- Sedimentation accumulates within the lagoon basins
- Conversion of the wetland to freshwater marsh
 - Continuously expanding stands of dense cattails
- Urban runoff and sewage spills.
 - Impaired water body for bacteria, nutrients, and sedimentation

33. Buena Vista Lagoon Restoration Planning

Slide 2



Existing Habitat

Photo: San Diego Association of Governments

33. Buena Vista Lagoon Restoration Planning

Slide 3



- Ten sensitive plant species are known to have potential to occur within the lagoon
 - Southwestern spiny rush was detected within the lagoon
- 114 special-status wildlife species with the potential to occur onsite
 - Seven wildlife species listed as federally and/or state threatened or endangered are considered resident/breeding within the lagoon
 - 22 non-listed special-status wildlife species are considered resident/breeding within the lagoon

33. Buena Vista Lagoon Restoration Planning

Slide 4

- Three restoration alternatives (Saltwater, Freshwater, and Hybrid) were considered in an Environmental Impact Report
- Refinement during the public review stage resulted in development of the proposed Modified Saltwater Alternative (MSA)
 - Saltwater regime
 - Emphasizing lower elevation salt marsh habitats and subtidal/open water
- Restored areas will be native coastal lagoon habitats
 - Open water
 - Mudflats
 - Southern coastal salt marsh (nontidal, high, mid, and low)
 - Riparian enhancement



33. Buena Vista Lagoon Restoration Planning

Slide 5



Buena Vista Lagoon

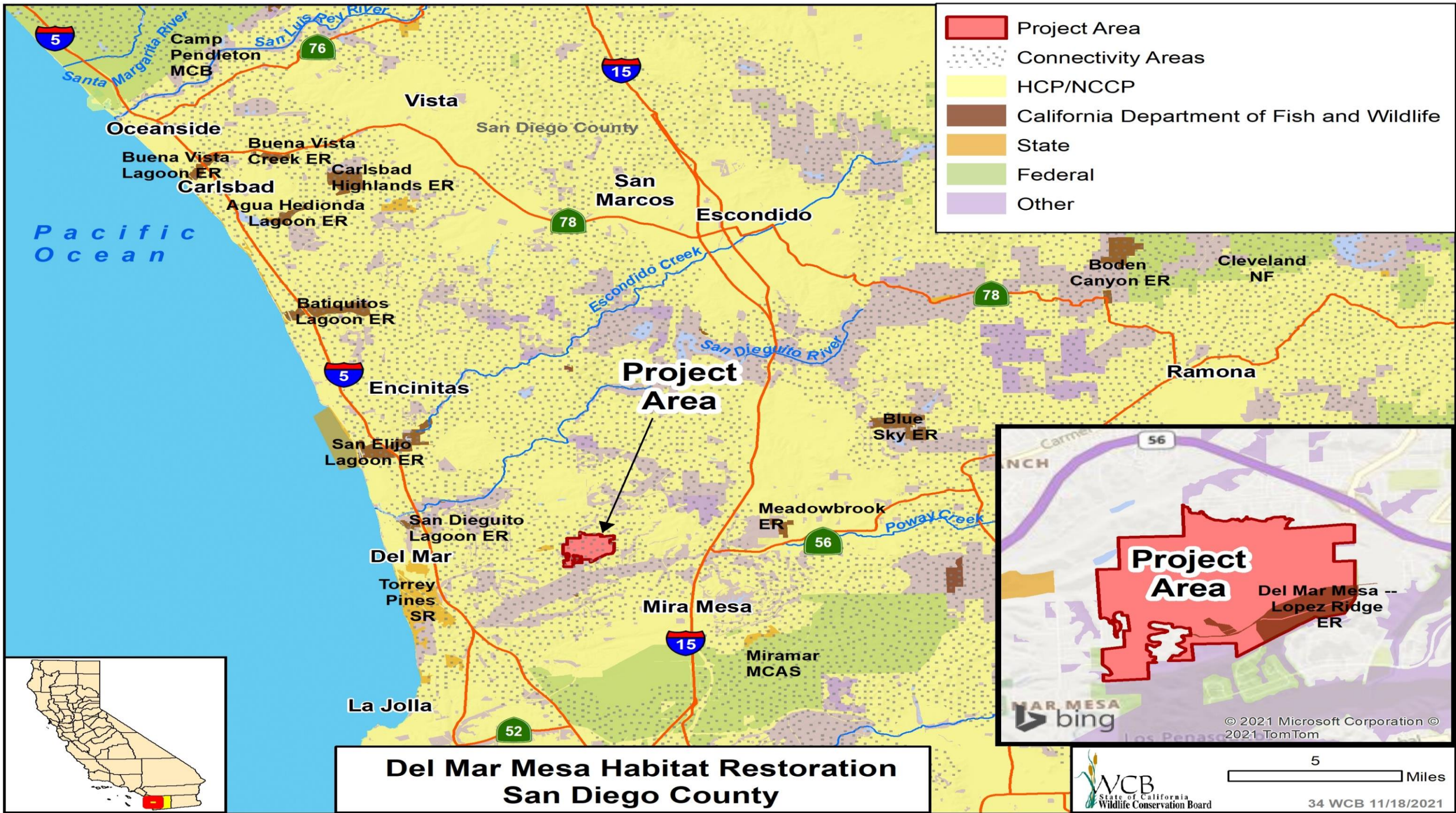
33. Buena Vista Lagoon Restoration Planning

Slide 6

Project Goals

- Restoring a system of native wetland and terrestrial vegetation communities
- Protect, improve, and maintain water quality
- Reduce disease vector concerns by minimizing potential mosquito breeding habitat
- Maintain or reduce current flood risk to existing infrastructure and adjacent development
- Maintain or enhance public access to the lagoon and recreation opportunities that are consistent with resource protection
- Assist with adaptation to climate change by allowing the wetland to migrate as sea level rise

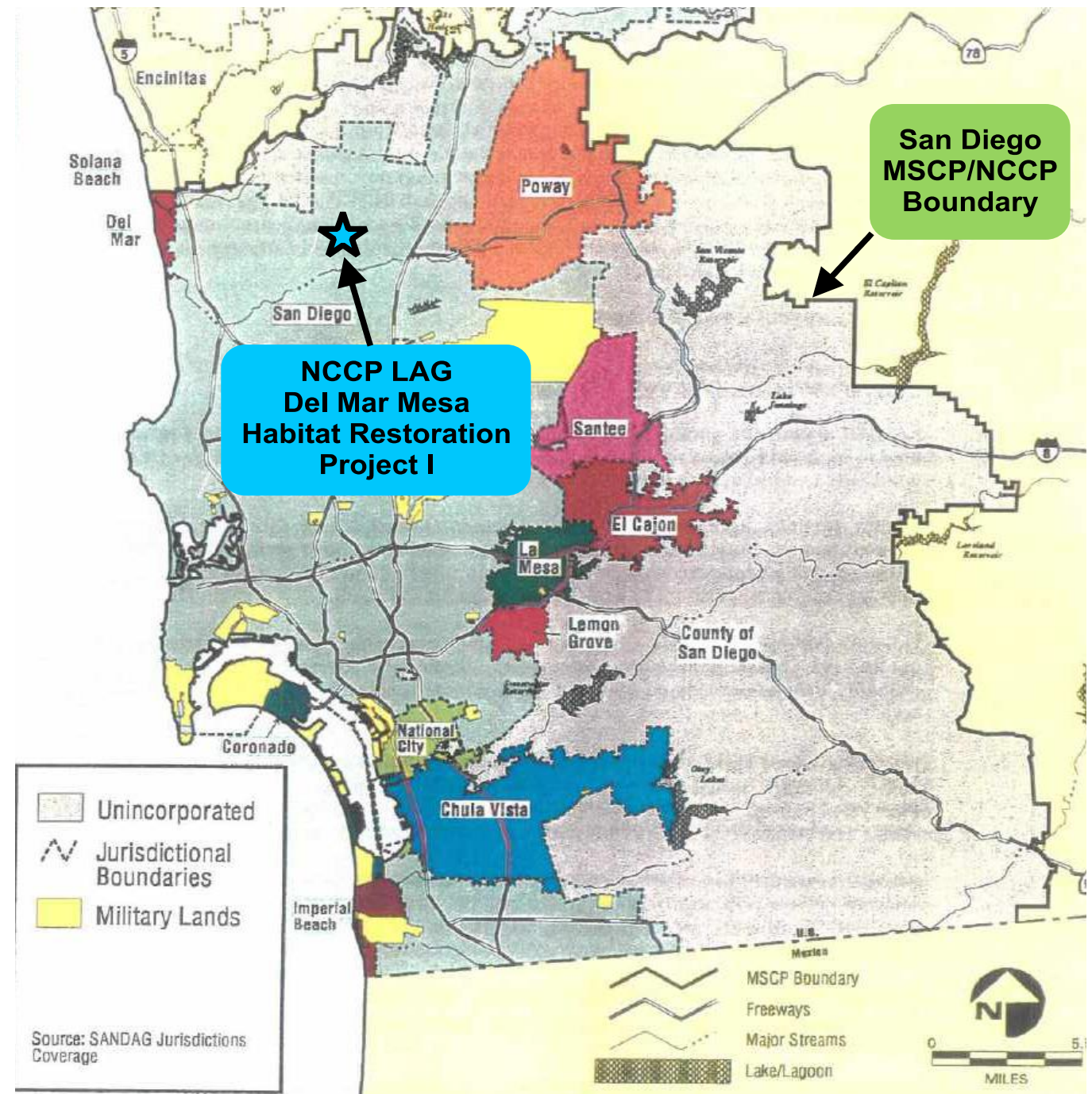




34. Del Mar Mesa Habitat Restoration

Slide 1

Project area, within overall Del Mar Mesa.



34. Del Mar Mesa Habitat Restoration

Slide 2

The Del Mar Mesa Preserve



Images courtesy of Friends of Del Mar Mesa

34. Del Mar Mesa Habitat Restoration

Slide 3

Closed dirt roads on vernal pool areas.



34. Del Mar Mesa Habitat Restoration

Slide 4

Vehicular damage to vernal pool areas.



34. Del Mar Mesa Habitat Restoration

Slide 5

Existing fence lines



34. Del Mar Mesa Habitat Restoration

Slide 6

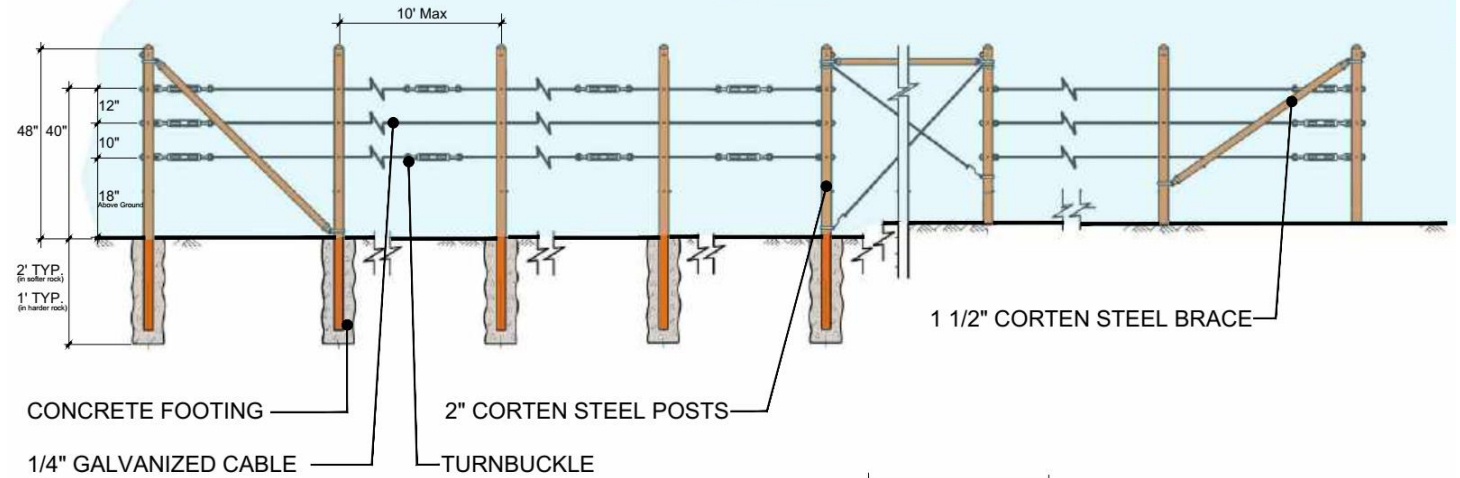
Exclusion fencing



SIMILAR TO THIS



AND THIS



Not to Scale

34. Del Mar Mesa Habitat Restoration

Slide 7

Illegitimate trail



34. Del Mar Mesa Habitat Restoration

Slide 8

Fence line relocation – protecting
cryptobiotic soils



34. Del Mar Mesa Habitat Restoration

Slide 9

Invasive weeds



34. Del Mar Mesa Habitat Restoration

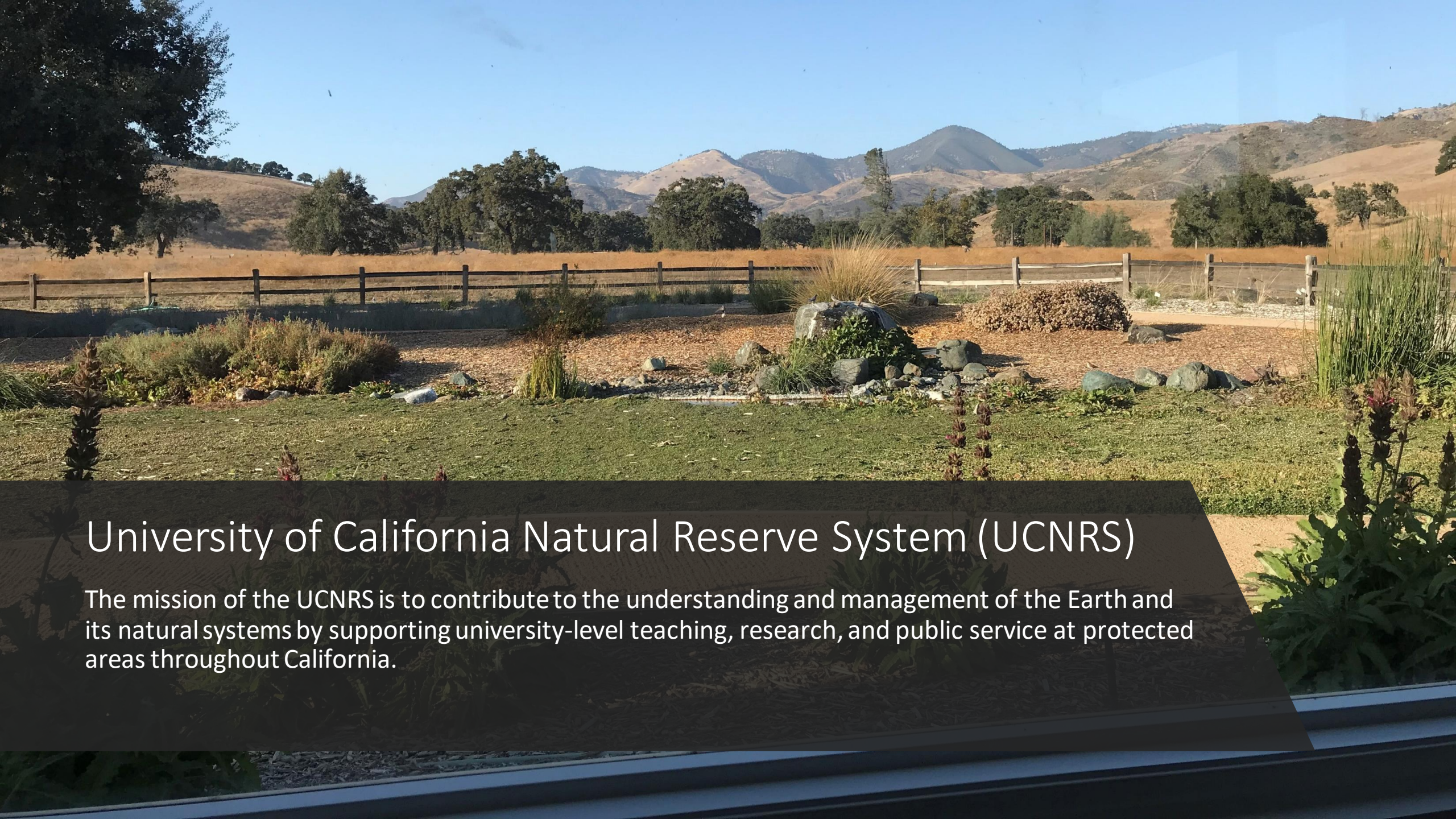
Slide 10

Native plants for
protection



Wildlife Conservation Board's University of California Natural Reserve System Grant Program





University of California Natural Reserve System (UCNRS)


The mission of the UCNRS is to contribute to the understanding and management of the Earth and its natural systems by supporting university-level teaching, research, and public service at protected areas throughout California.

University of California Natural Reserve System Grant Program

- Background:
- Continues WCB/UCNRS partnership started under Proposition 84
- Funding allocation provided by Proposition 68 of up to \$10,000,000
- Eligible entities include nine general campuses within the University of California system
- The grant program has a 25% match/cost share requirement
- WCB administers the solicitation and application process
- UCNRS administers the ranking and selection process







35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 1

Kendall-Frost field station building



35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 2

Field station deck and pergola with sunshade



35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 3

Kitchenette with countertop workstation on right



35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 4

Researcher's office

35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 5

- Communications hub for Reserve computers, weather station & bird nest cameras





35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 6

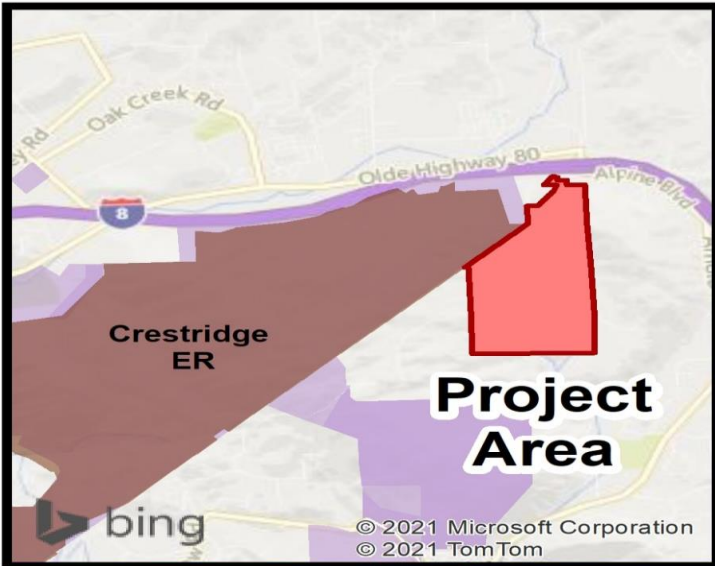
- Field station with Mission Bay on the left



35. Kendall-Frost Field Station and Learning Center Enhancement

Slide 7

Back of field station building with detached
storage shed



San Diego County MSCP – Crestlake
San Diego County



5 Miles

36. San Diego County MSCP - Crestlake

Slide 1

Taken from near the center of the Crestlake property, this photo offers an overview of the habitat and topography of the property.



36. San Diego County MSCP - Crestlake

Slide 2

A view from the eastern side
of the property showing
Coastal Sage Scrub habitat.



36. San Diego County MSCP - Crestlake

Slide 3

Southeasterly view across the Crestlake property highlighting chaparral habitat found on the property.





36. San Diego County MSCP - Crestlake

Slide 4

The pond located in the western central area of the Crestlake property.

A landscape photograph showing a dry, grassy field in the foreground. In the background, there are rolling hills covered in dense, dark green vegetation. The sky is a clear, bright blue with a few small, wispy clouds. The overall scene is a natural, open landscape.

36. San Diego County MSCP - Crestlake

Slide 5

A view to the northeast over the north
central side of the Crestlake property.



Proposed Items 26-36 Motion

Boeger Ranch



37. Board Resolutions

Tuolumne River

38. 2022 Board Meeting Dates

- Thursday, February 24, 2022, 10:00 a.m.
- Thursday, May 26, 2022, 10:00 a.m.
- Thursday, August 25, 2022, 10:00 a.m.
- Thursday, November 17, 2022, 10:00 a.m.



Stay Safe and Healthy, Enjoy Your Day!
Next Board Meeting February 24, 2022