



**Wildlife Conservation Board Meeting  
August 26, 2021**

Coyote Valley





## Item 2. Public Forum





## Item 3. Funding Status

Truckee River WLA



## Item 4. Executive Director's Report



## 4. Executive Director's Report

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### Justice Equity, Diversity and Inclusion (JEDI) Update

August 26, 2021



# Why JEDI matters to WCB

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- A critical piece of our conservation is ensuring diversity within the WCB ranks as well as working to ensure that Californians have equitable access to our public lands for outdoor recreation as well as to appreciate its intrinsic value.
  - Goal: WCB has a workforce that is reflective of and responsive to all Californians
- 
- WCB is working closely with CDFW through:
    - Capitol Collaborative on Race and Equity training
    - Implementation of the CDFW Justice, Equity, Diversity, Inclusion Plan



# Capitol Collaborative on Race and Equity (CCORE)

CCORE training includes:

- 50 hours over 16 months focused on racial equity training and experiential and project-based learning to implement activities that embed racial equity approaches into institutional culture.
- 
- CDFW will have a draft Racial Equity Action Plan (REAP) tailored to CDFW/WCB organizational needs.



# Justice, Equality, Diversity and Inclusion (JEDI)

JEDI includes:

- Implementation of existing Action Plan
  - Small Group work
    - Accountability and Transparency
      - Land acknowledgment
      - Traditional ecological knowledge
-

# Justice, Equality, Diversity and Inclusion

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## (JEDI)

cont.

JEDI includes:

- Small Group work (continued)
    - Employee Engagement
    - Recruitment and Branding
  - Retention and Inclusion
-



# WCB Engagement/Next Steps

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- Acknowledge this is a journey. People on different parts of learning and understanding.
  - Develop a WCB JEDI team.
  - Distribute information and hold internal conversations.
  - Identify actions for WCB with Board input.
-



# Wildlife Conservation Board Meeting August 26, 2021 Project Map





## Consent Items 5-21

## Item 5. Recovery of Funds

Fund Name	Amount
General Fund	\$2,250.00
Safe Neighborhood Parks, Clean Water, Clean Air, and Coastal Protection Bond Fund	\$0.00
Greenhouse Gas Reduction Fund	\$4,152.50
Water Security, Clean Drinking Water, Coastal and Beach Protection Fund of 2002	\$0.00
Water Quality, Supply, and Infrastructure Improvement Fund of 2014	\$45,636.83
The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018	\$22,586.75
<b><i>Total Recoveries for All Funds</i></b>	<b><i>\$74,626.08</i></b>





**Consent Items 5-21, excluding Item 15  
Motion**



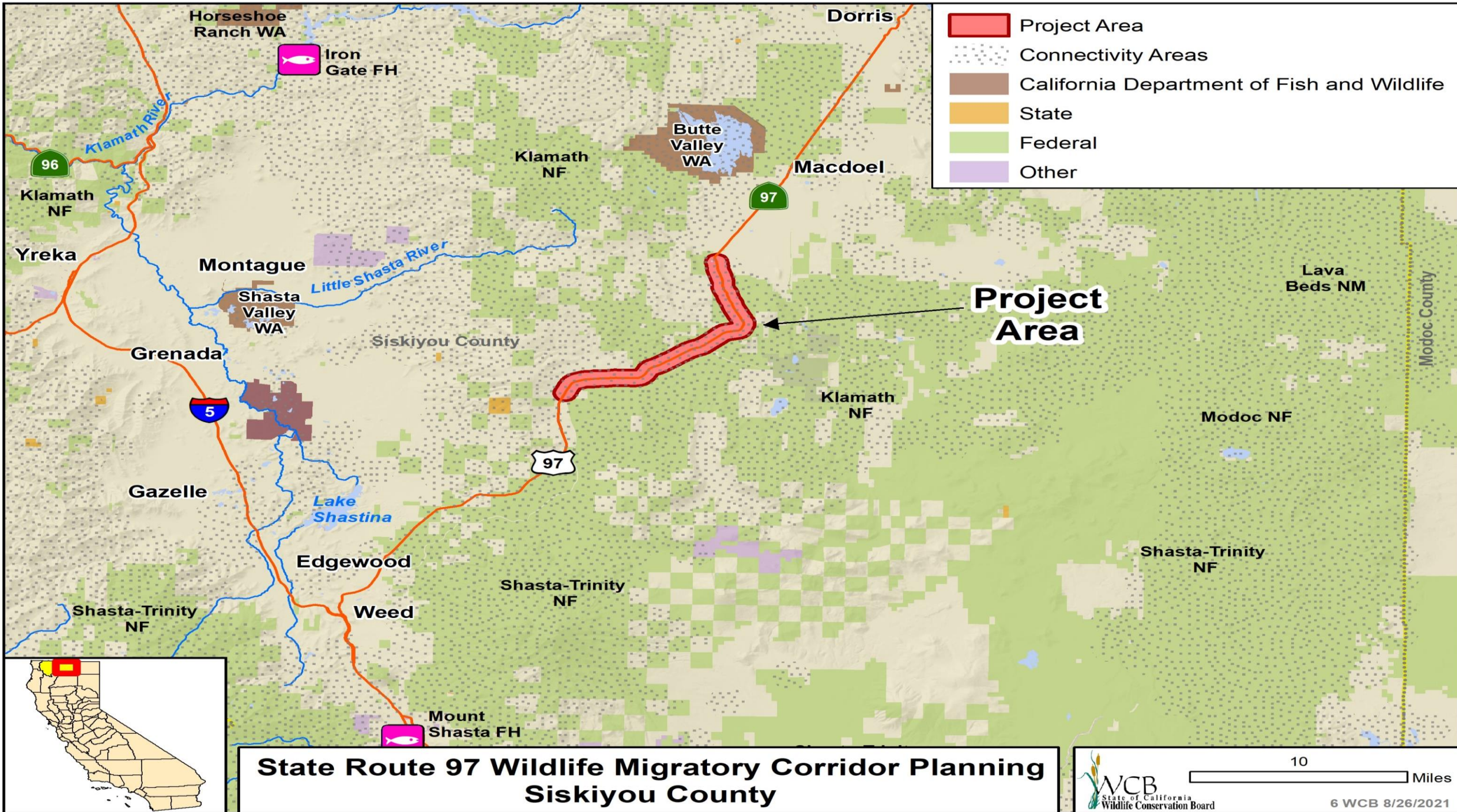




## Proposed Calendar Items 22-33

Hawk Hill





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

**Project Area**

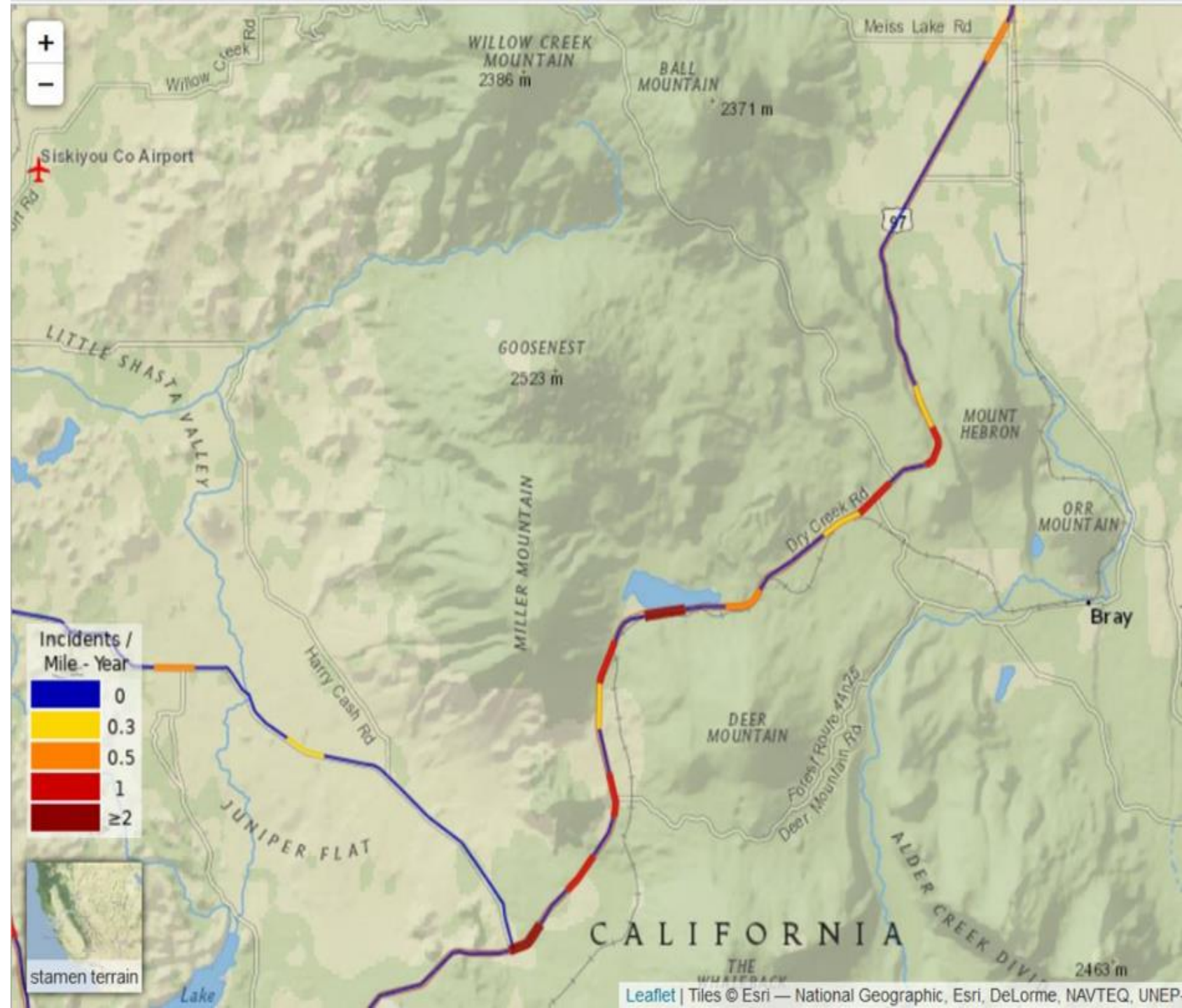
**State Route 97 Wildlife Migratory Corridor Planning  
Siskiyou County**



# 6. State Route 97 Wildlife Migratory Corridor Planning

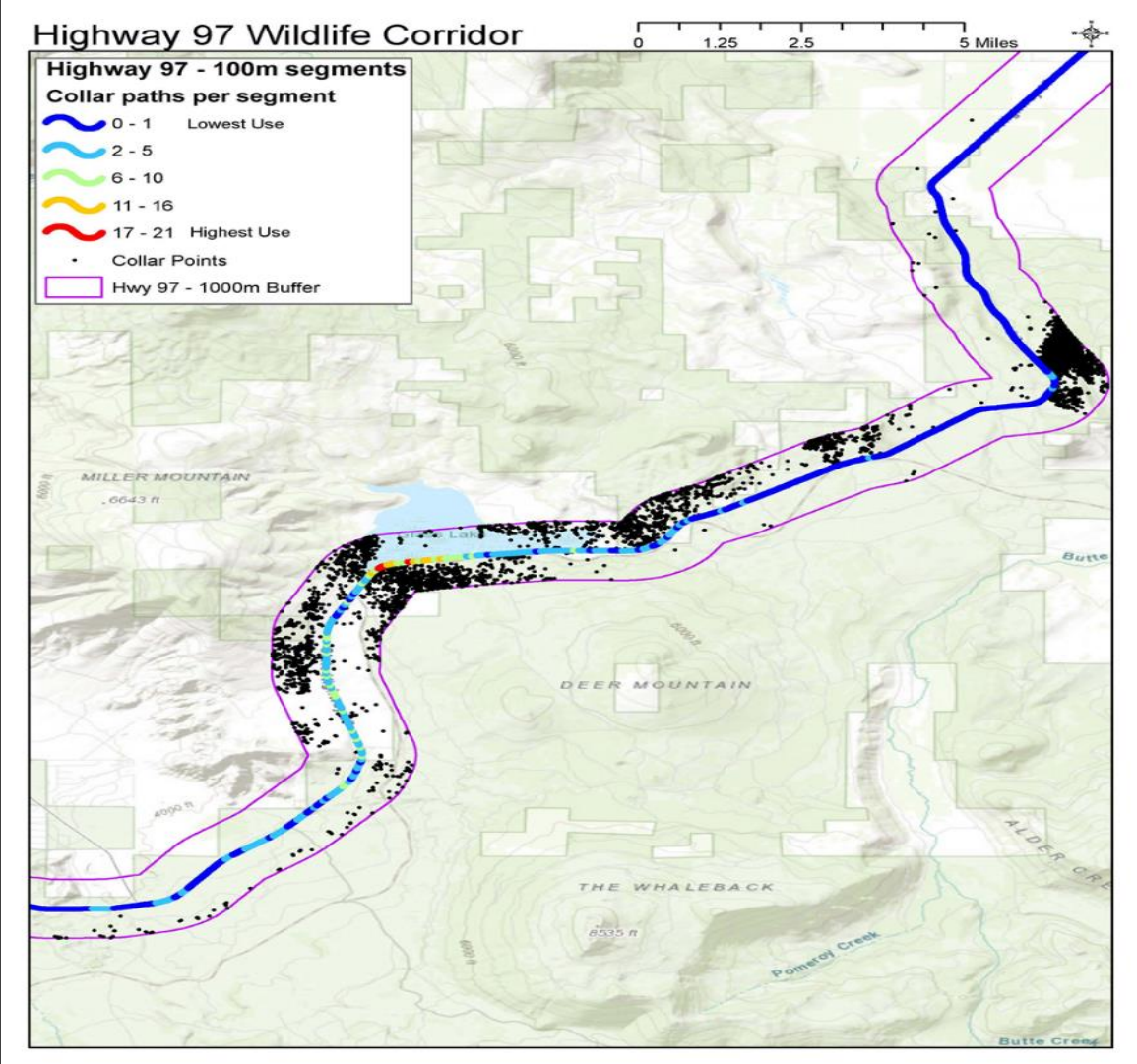
Slide 1

Real-time Deer Incidents  
and Wildlife-Vehicle  
Conflict Hotspots from May  
2020. Data courtesy of the  
Road Ecology Center



# 6. State Route 97 Wildlife Migratory Corridor Planning

Slide 2



Sample dataset from GPS-collared elk wildlife



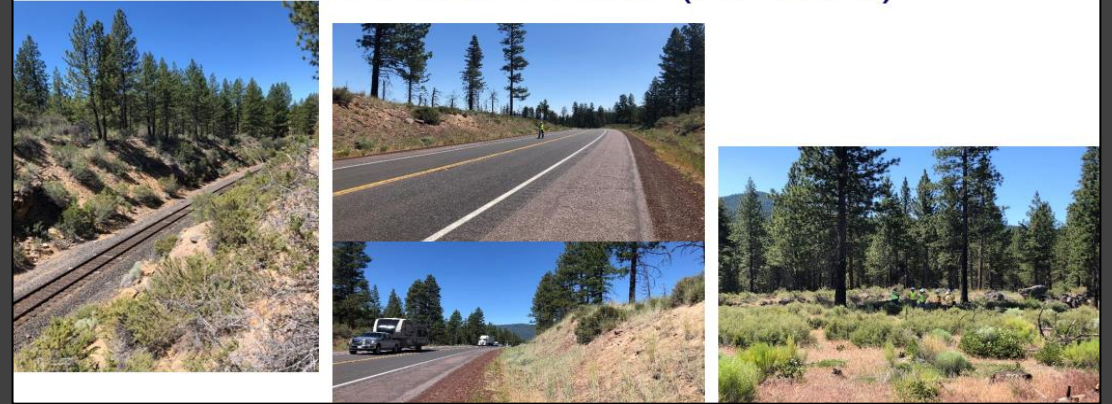
# 6. State Route 97 Wildlife Migratory Corridor Planning

## Slide 3

### Site 1A: Grass Lake (MP 23.7)



### Site 1B: Grass Lake (MP 23.8)



### Site 2: Horsethief Creek (MP 28.7)



### Site 3A: Mud Lake Private (MP 33.9)



Potential Project Sites

# 6. State Route 97 Wildlife Migratory Corridor Planning

Slide 4

Site 3B: Mud Lake NF (MP 32.9)

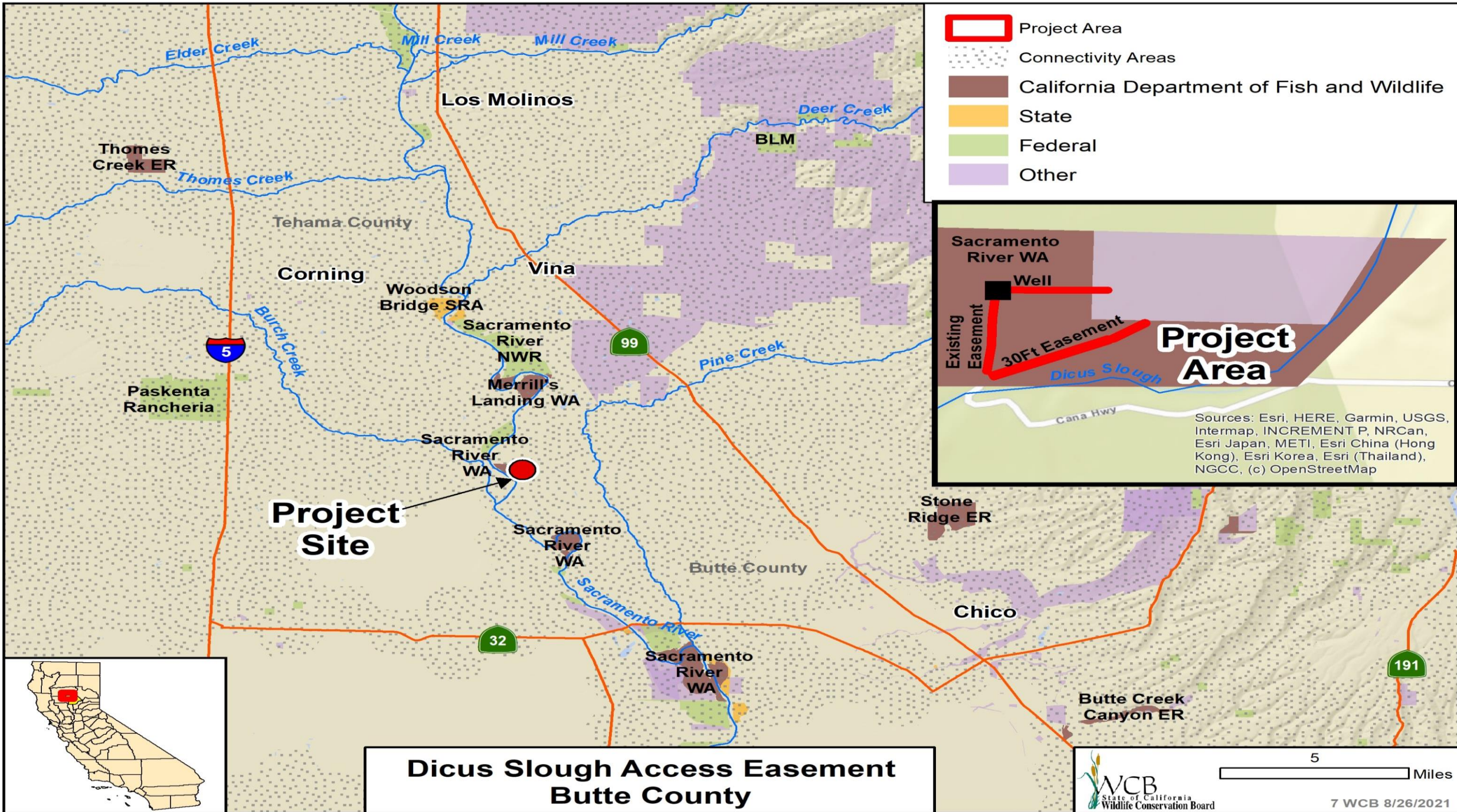


Site 4: Grass Lake (MP 19.5)



Potential Project Sites (continued)





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



**Dicus Slough Access Easement  
Butte County**






# 7. Dicus Slough Access Easement

Slide 1

Conifer encroachment on aspen and meadows (Klamath National Forest).





## 7. Dicus Slough Access Easement

Slide 2

Conifer encroachment on  
aspen (Klamath National  
Forest).





## 7. Dicus Slough Access Easement

Slide 3

Encroaching Juniper (Klamath National Forest).





## 7. Dicus Slough Access Easement

Slide 4

Meadow Creek (Klamath National Forest).



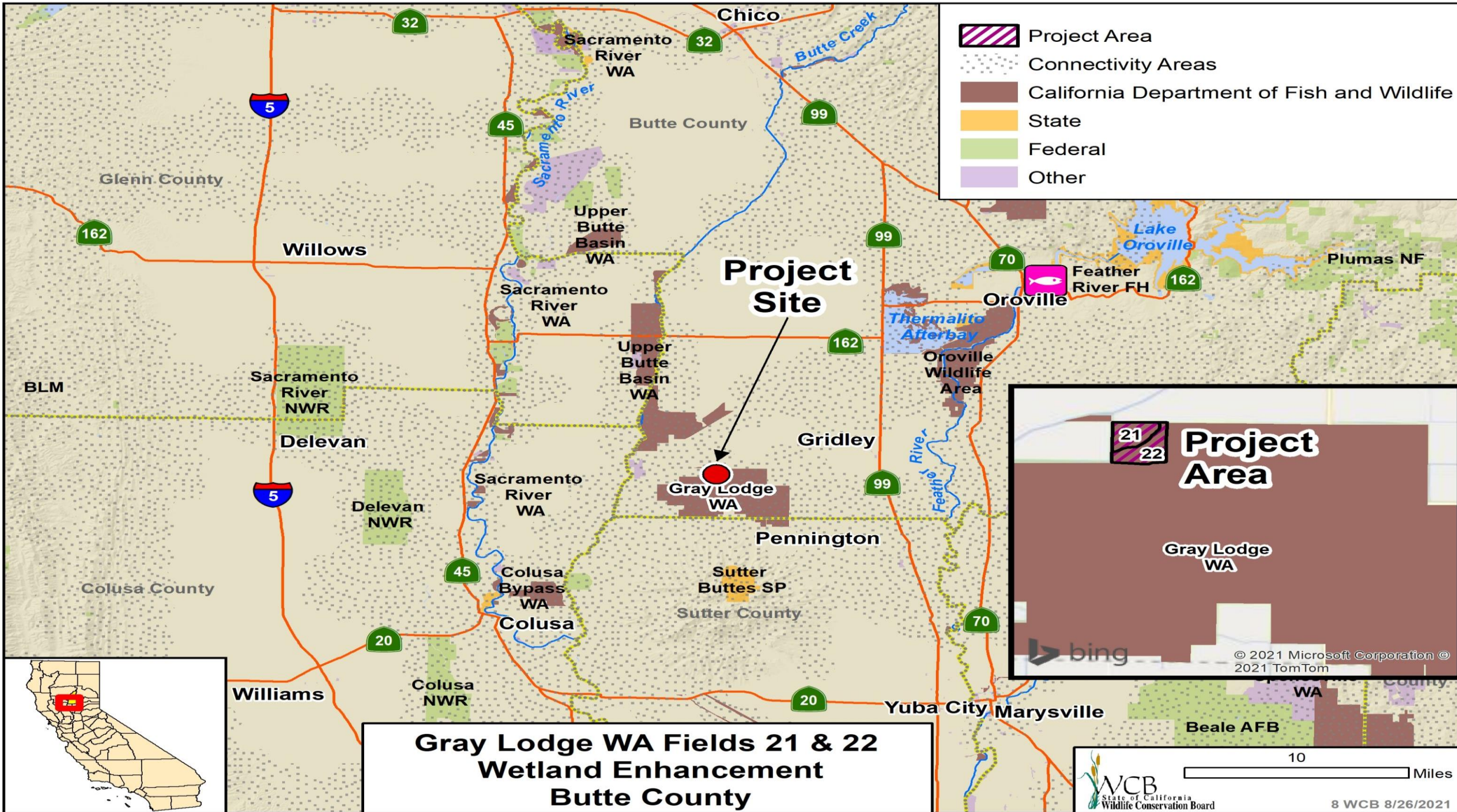
# 7. Dicus Slough Access Easement

Slide 5

Deer in Round Valley  
Meadow (Klamath  
National Forest).







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

**Project Site**

**Project Area**

**Gray Lodge WA Fields 21 & 22  
Wetland Enhancement  
Butte County**



10 Miles





# 8. Gray Lodge Wildlife Area Fields 21 & 22 Wetland Enhancement

Slide 1

Gray Lodge Wildlife Area typical wetland field in fall.





Dilapidated water control structure prevents proper water/vegetation management.

## 8. Gray Lodge Wildlife Area Fields 21 & 22 Wetland Enhancement

Slide 2





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## 8. Gray Lodge Wildlife Area Fields 21 & 22 Wetland Enhancement

Slide 3

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Drain structure sits at incorrect elevation.





8. Gray Lodge Wildlife Area Fields 21 & 22 Wetland Enhancement  
Slide 4

Field 21 looking north.





8. Gray Lodge Wildlife Area Fields 21 & 22 Wetland Enhancement  
Slide 5

Field 22 looking north.









## 9. Truckee River Wildlife Area West River Unit Transfer

Slide 1

Looking south from the eastern end of the property up the scree slope through sage and pine.





## 9. Truckee River Wildlife Area West River Unit Transfer

Slide 2

The Truckee River along the northern edge of the property with willow and aspen.





## 9. Truckee River Wildlife Area West River Unit Transfer

Slide 3

Looking upstream from the property  
along the Truckee River





9. Truckee River Wildlife  
Area West River Unit  
Transfer  
Slide 4

- A meadow toward the western end of the property.





9. Truckee River Wildlife  
Area West River Unit  
Transfer  
Slide 5

Looking downstream to the east.



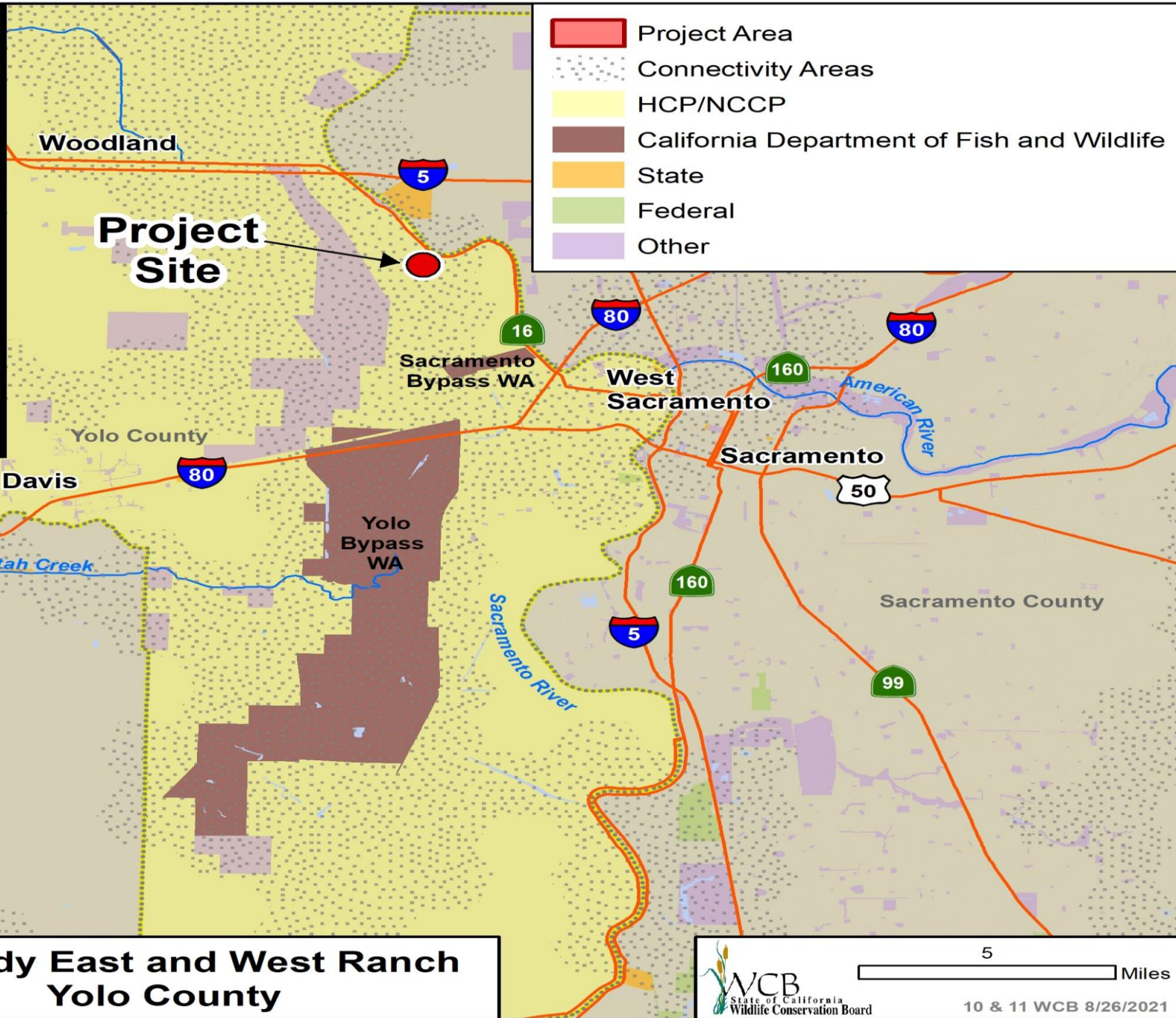
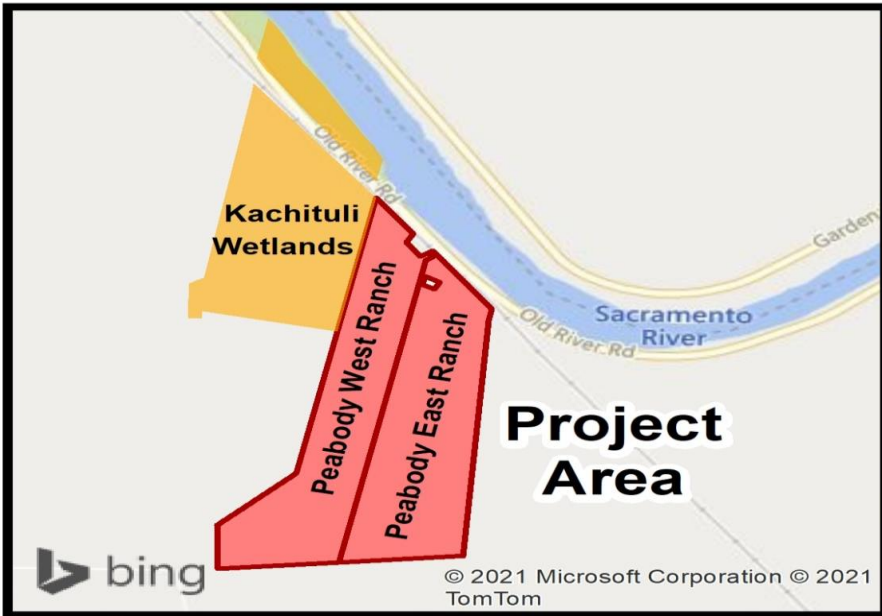


# 9. Truckee River Wildlife Area West River Unit Transfer

Slide 6

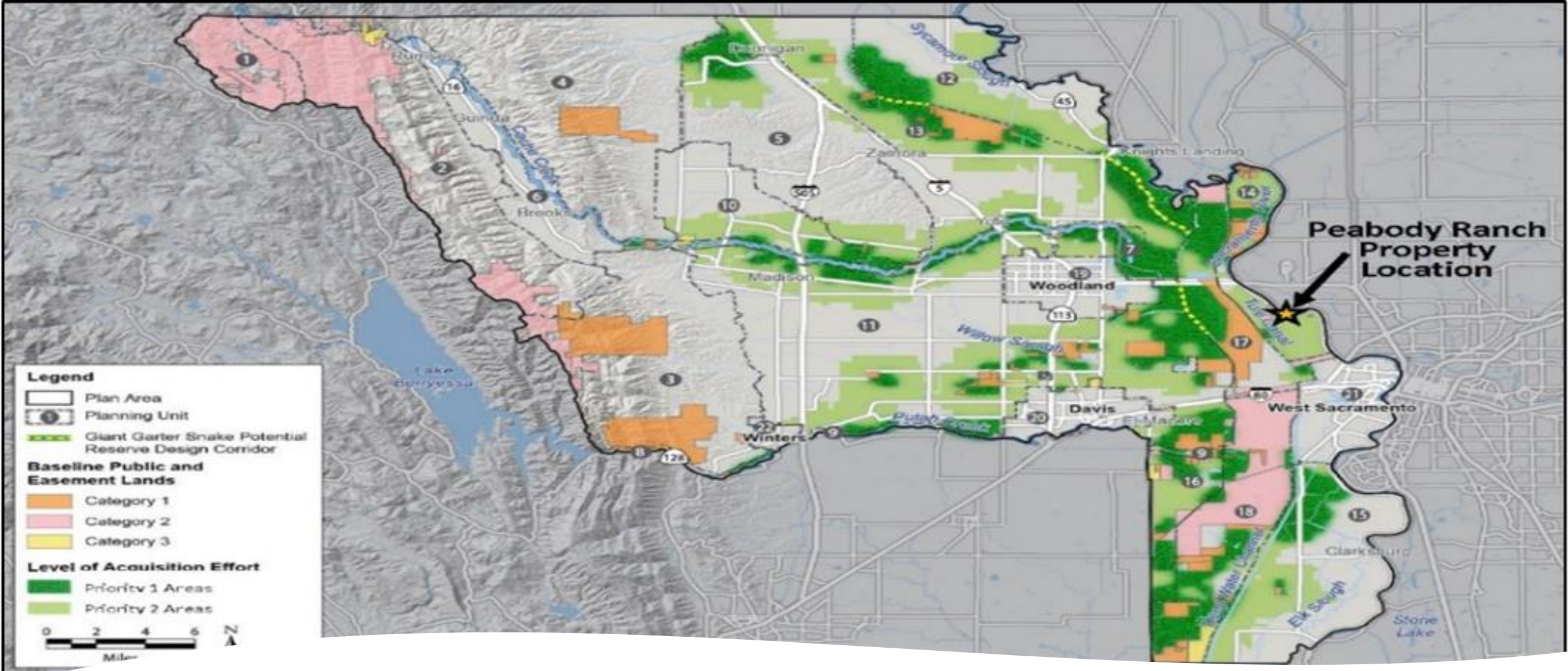
Mule's ear flowers and sage.





**Peabody East and West Ranch  
Yolo County**





# 10. Peabody East Ranch

Slide 1

Site location within the Yolo HCP/NCCP priority acquisition areas (shown in green)



A photograph of a dirt road winding through a rural landscape. On the left, a large, mature valley oak tree with dense green foliage dominates the foreground, its branches extending over the road. The road is unpaved and shows tire tracks. To the right of the road is a vibrant green field, likely alfalfa, which rises slightly in the distance. The sky is a clear, bright blue with a few wispy white clouds. The overall scene is peaceful and natural.

## 10. Peabody East Ranch

Slide 2

Mature valley oak tree suitable for Swainson's hawk and white-tailed kite nesting along the northern edge of the Easement Area.





# 10. Peabody East Ranch

Slide 3

Row of valley oak trees along the northern edge of the Peabody Ranch East Easement Area which include mature trees suitable for Swainson's hawk and white-tailed kite nesting and younger trees that may become suitable nest trees in the future.





# 10. Peabody East Ranch

Slide 4

Approximately 40 turkeys foraging in the southernmost field, where residual matter from the previous season's crop was intentionally left in place over winter to provide forage for a variety of species.





# 10. Peabody East Ranch

Slide 5

Existing dirt access road and field planted in tomatoes located in the northeast corner of the property.





## 10. Peabody East Ranch

Slide 6

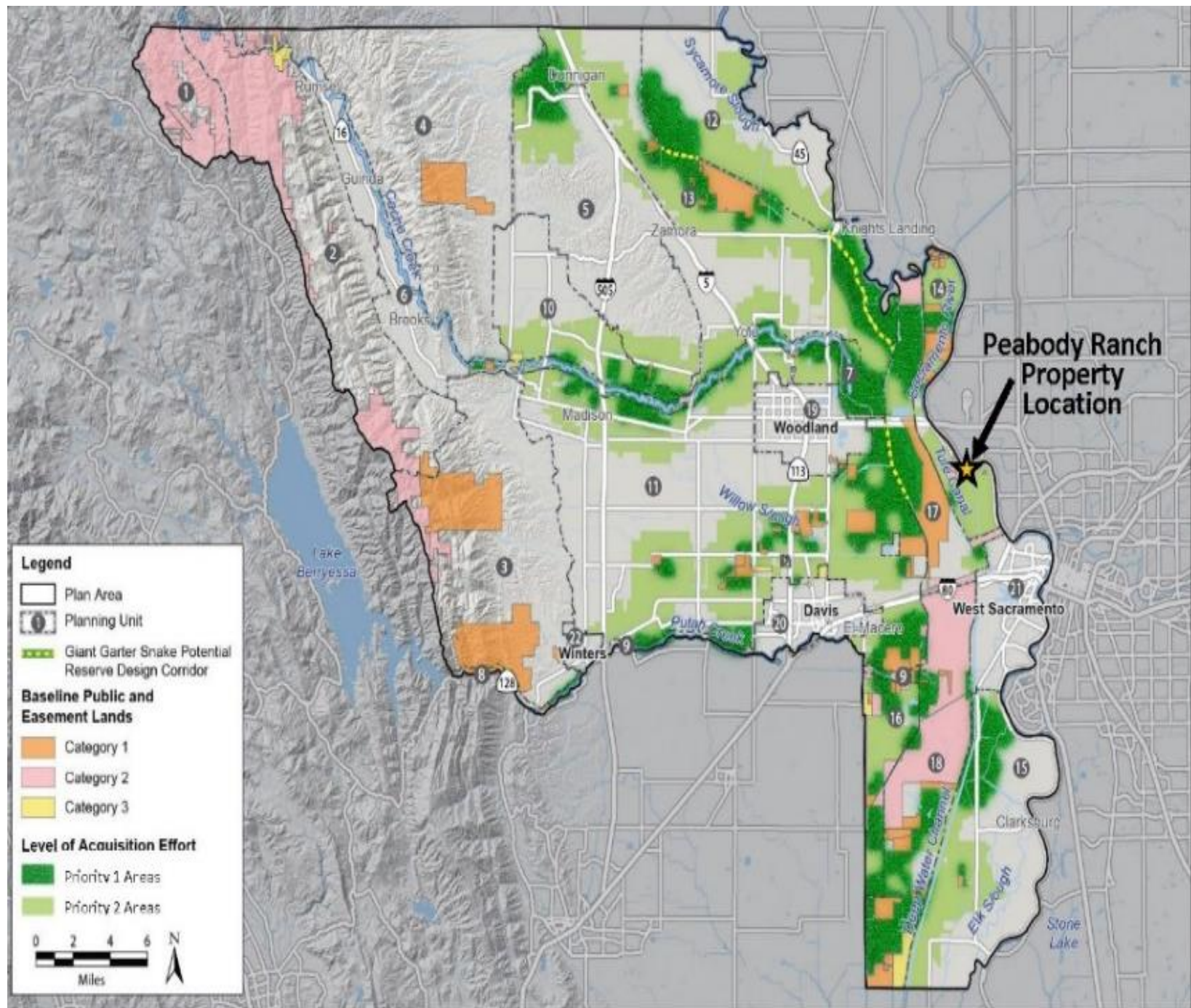
Southern field planted in tomatoes as part of a crop rotation that provides foraging habitat for Swainson's hawk and white-tailed kite.



# 11. Peabody West Ranch

Slide 1

Site location within the Yolo HCP/NCCP priority acquisition areas (shown in green)





# 11. Peabody West Ranch

Slide 2

- Entrance to Peabody Ranch West with Swainson's hawk actively hunting the northern field. Mature trees on adjacent Kachituli wetlands site held in fee title by the State Lands Commission in the background.







# 11. Peabody West Ranch

Slide 3

- Large valley oak tree that is suitable for Swainson's hawk and white-tailed kite nesting located along the northern boundary of the Peabody Ranch West Easement Area.





# 11. Peabody West Ranch

Slide 4

- Photo taken from southwest corner of property looking towards southern field which was recently planted in tomatoes and provides foraging habitat for Swainon's hawk and white-tailed kite due to the timing of crop rotations and types of crops planted.





# 11. Peabody West Ranch

Slide 5

Hedgerow of native plants including valley oak, California wild rose, and coyote brush along the western edge of the Easement Area with a portion of the northern agricultural field on the left.




# 11. Peabody West Ranch

Slide 6

Hedgerow of native plants including valley oak, California wild rose, and elderberry along the western edge of the property with the northern farm field on the left, the central farm field in the background, and a pair of Swainson's hawks flying above the property. The fields are rotated and cultivated in crops that provide foraging habitat for Swainson's hawk and white-tailed kite and valley oak trees planted within the hedgerow will eventually provide suitable nesting habitat.





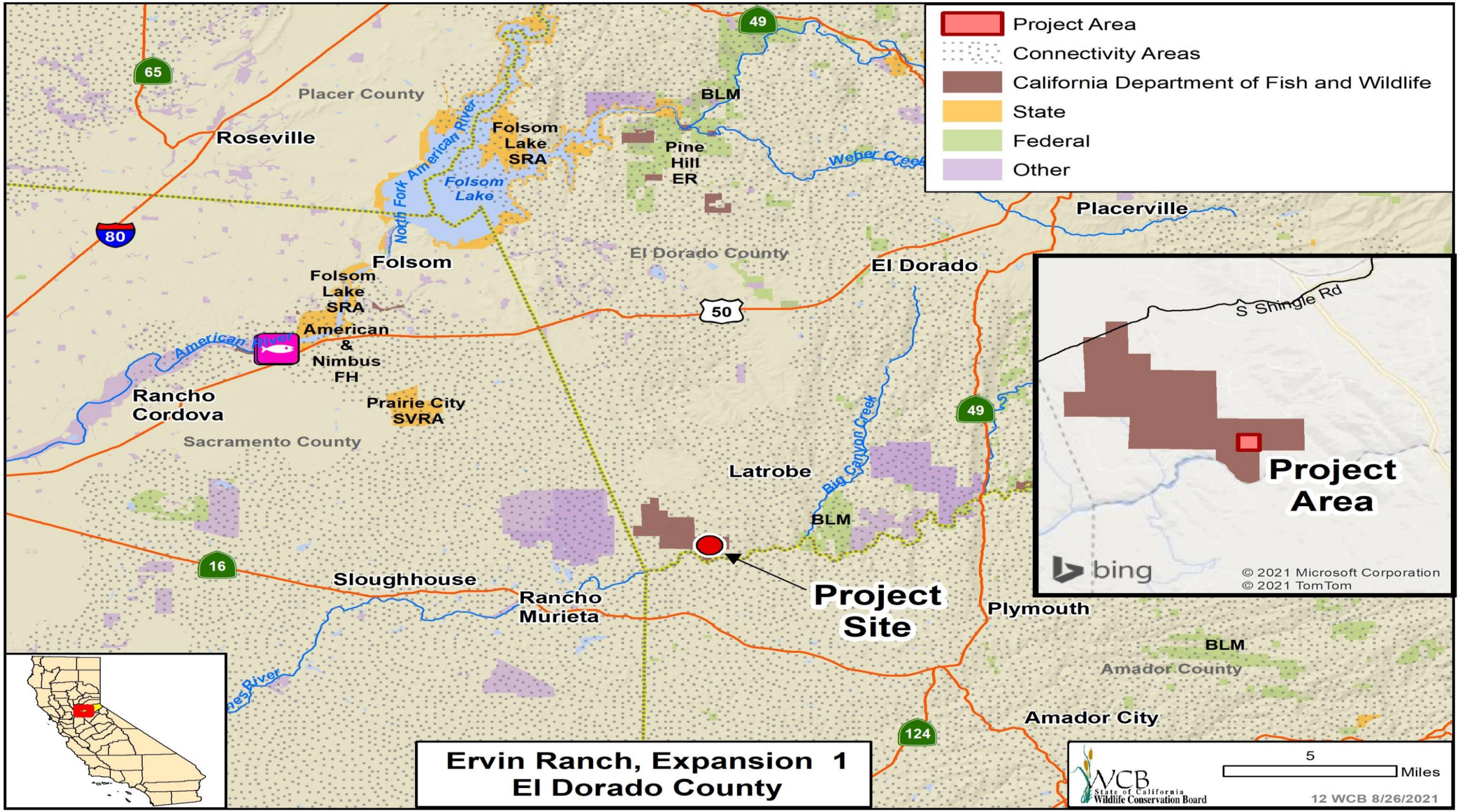


# 11. Peabody West Ranch

Slide 7

Photo taken at northeastern corner of property looking towards the northern field in the Conservation Area with mature trees on the adjacent Kachituli wetlands site held in fee title by the State Lands Commission in the background.





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

bing

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**Ervin Ranch, Expansion 1  
El Dorado County**

5 Miles

12 WCB 8/26/2021



# 12. Ervin Ranch, Expansion 1

Slide 1

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Ervin Ranch, Expansion 1 Typical oak woodlands found on property and Beck the English Setter looking for quail.





# 12. Ervin Ranch, Expansion 1

Slide 2

Ervin Ranch Expansion 1 View overlooking the  
Cosumnes River.





A landscape photograph showing a field of oak trees under a clear blue sky. The foreground is filled with tall, green grass. The trees are scattered across the middle ground, with a large, prominent tree on the right side. The overall scene is bright and sunny.

## 12. Ervin Ranch, Expansion 1

Slide 3

Ervin Ranch Expansion 1, Oak woodlands  
found on the property.



A scenic landscape featuring a field of purple wildflowers in the foreground. The flowers are in various stages of bloom, with some fully open and others as buds. The background shows a line of trees and rolling hills under a clear blue sky. The overall scene is bright and natural.

## 12. Ervin Ranch, Expansion 1

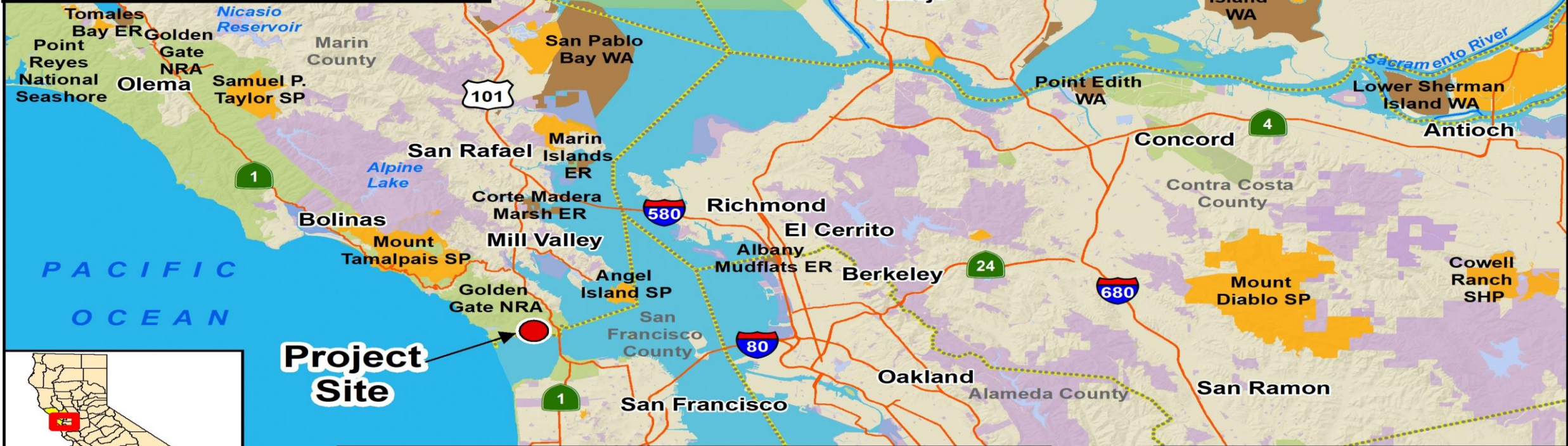
Slide 4

- Ervin Ranch Expansion 1 Wildflowers found on property.





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



**Project Site**

**Hawk Hill Visitor Access Improvements  
Marin County**

10 Miles

WCB  
State of California  
Wildlife Conservation Board

13 WCB 8/26/2021



## Hawk Hill Project Location

# 13. Hawk Hill Visitor Access Improvements

Slide 1

Aerial view of the Hawk Hill  
project site







# 13. Hawk Hill Visitor Access Improvements

Slide 2

Hawk Hill existing conditions



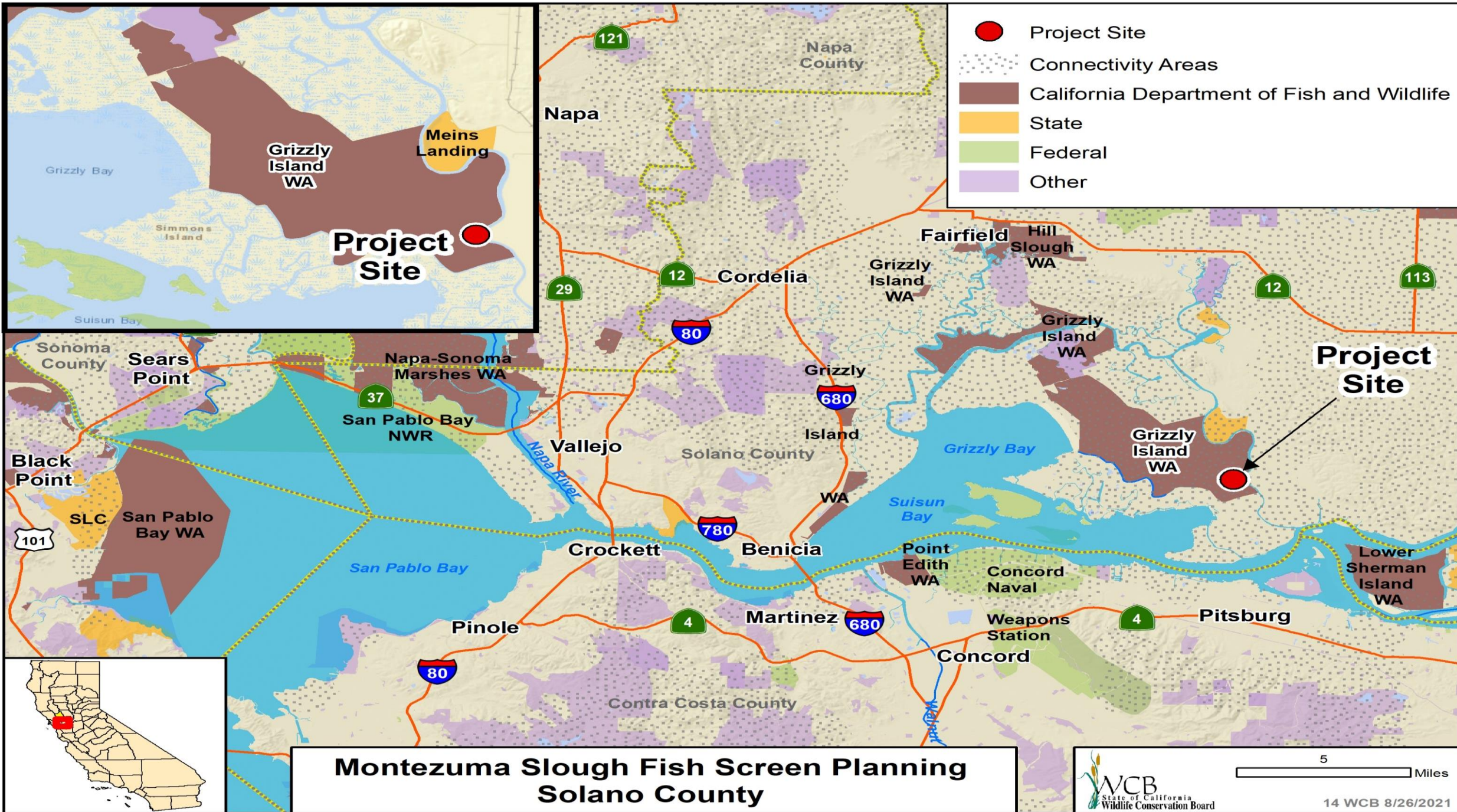


# 13. Hawk Hill Visitor Access Improvements

Slide 3

Sunset at Hawk Hill





**Montezuma Slough Fish Screen Planning  
Solano County**





# 14. Montezuma Slough Fish Screen Planning

Slide 1

Screened intake on Montezuma Slough.



# 14. Montezuma Slough Fish Screen Planning

Slide 2

Existing Intakes on the interior side of levee (Looking North).







# 14. Montezuma Slough Fish Screen Planning

Slide 3

Approximate location of fish screen  
relocation site.





# 14. Montezuma Slough Fish Screen Planning

Slide 4

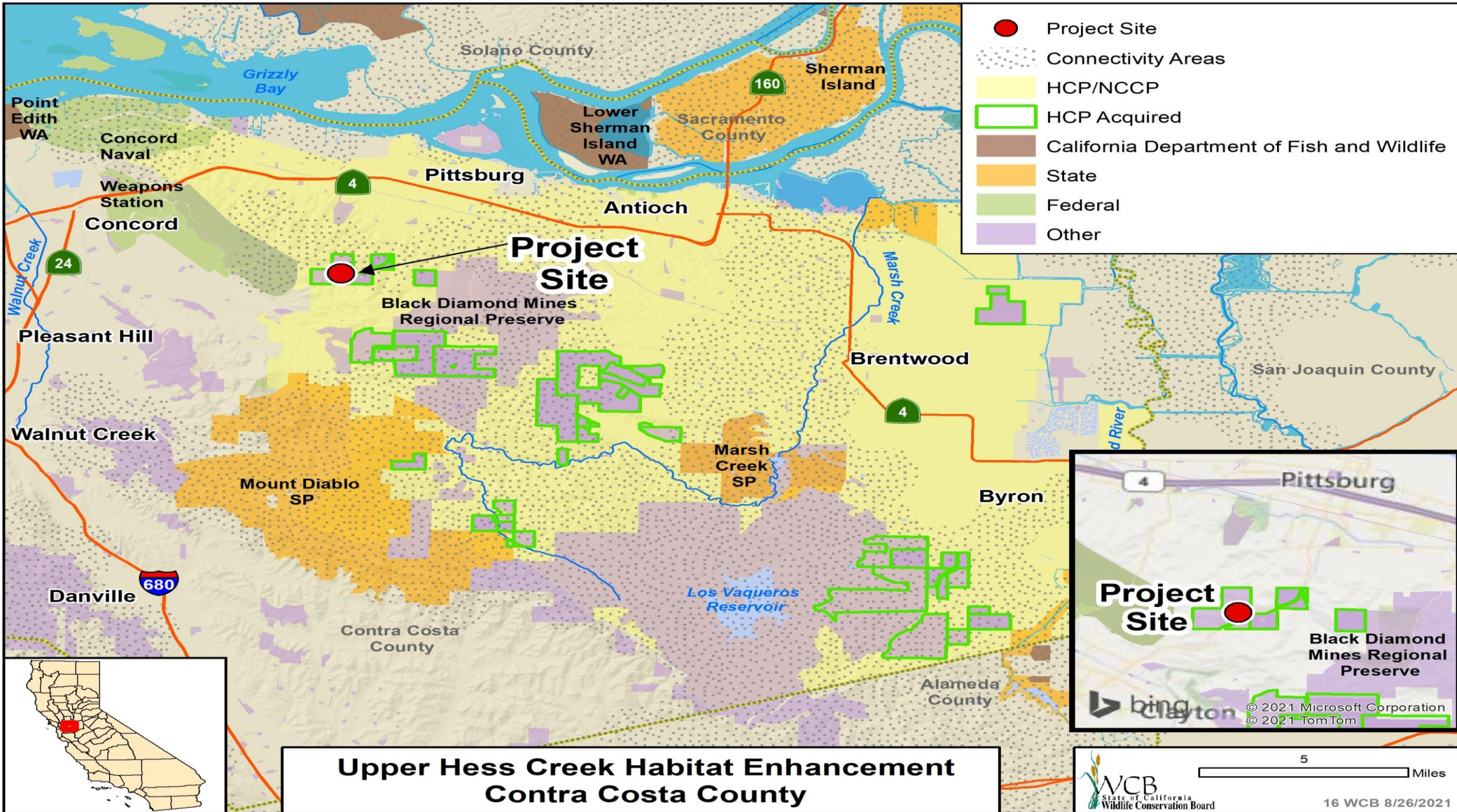
Grizzly Island Ditch where new fish  
screen intakes would discharge to.



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

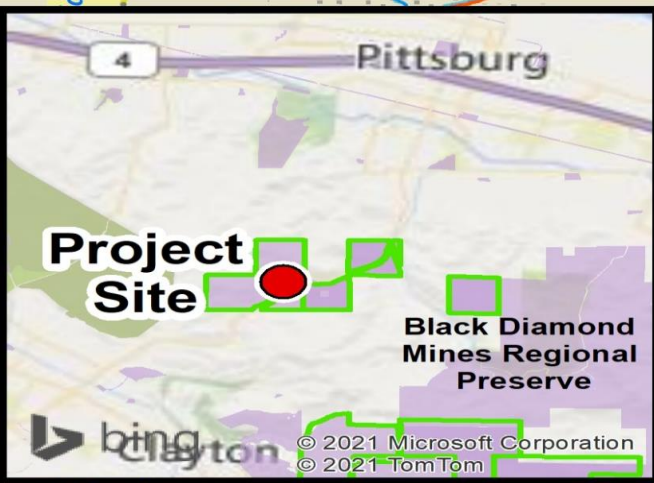
Withdrawn from consideration at this time.





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

**Upper Hess Creek Habitat Enhancement  
Contra Costa County**







# 16. Upper Hess Creek Habitat Enhancement

Slide 1

Cattle inside existing fencing, impacting wetland area.





# 16. Upper Hess Creek Habitat Enhancement

Slide 2

Wetland area damage from  
cattle.





# 16. Upper Hess Creek Habitat Enhancement

Slide 3

California red-legged frog collection onsite.



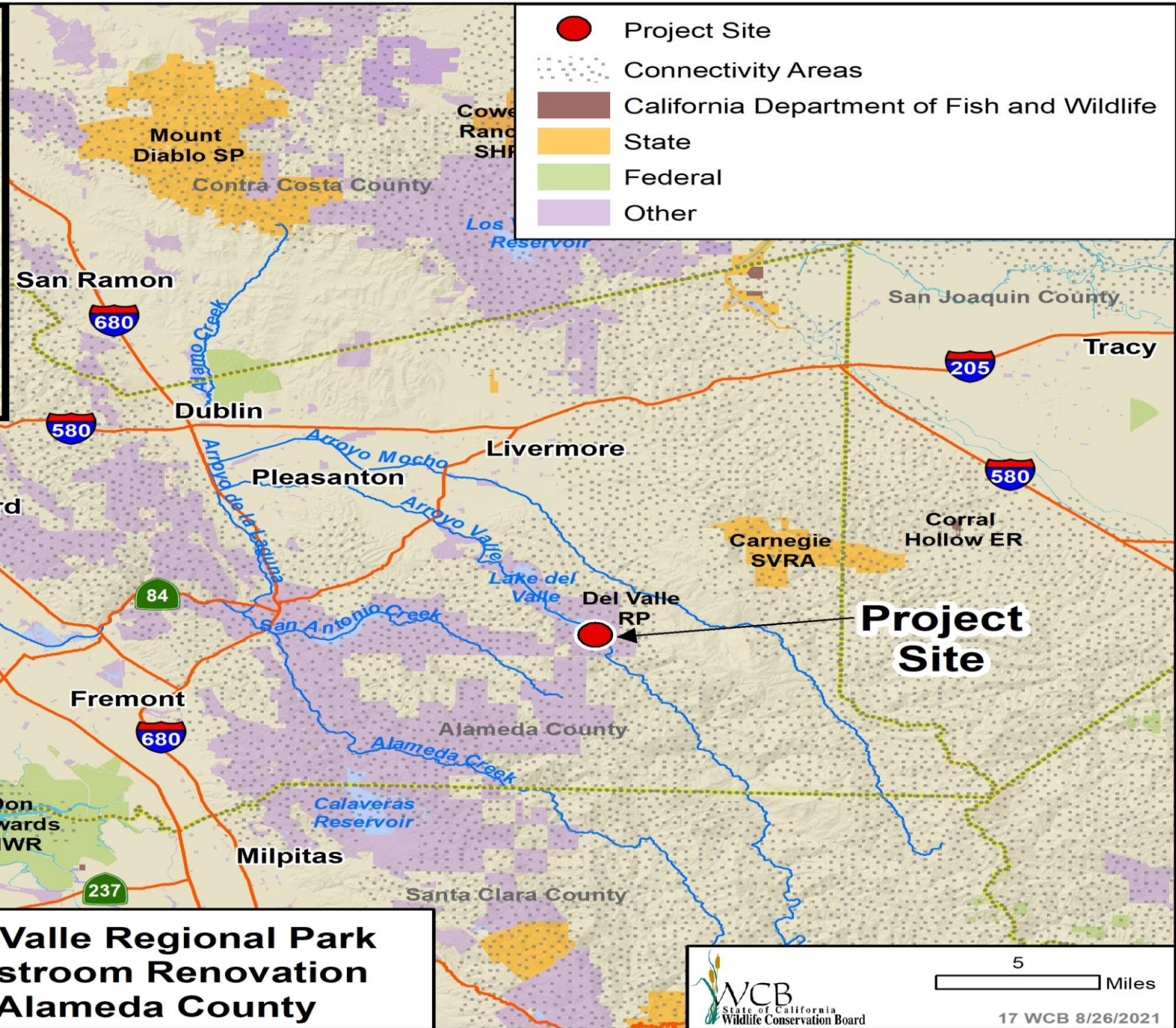
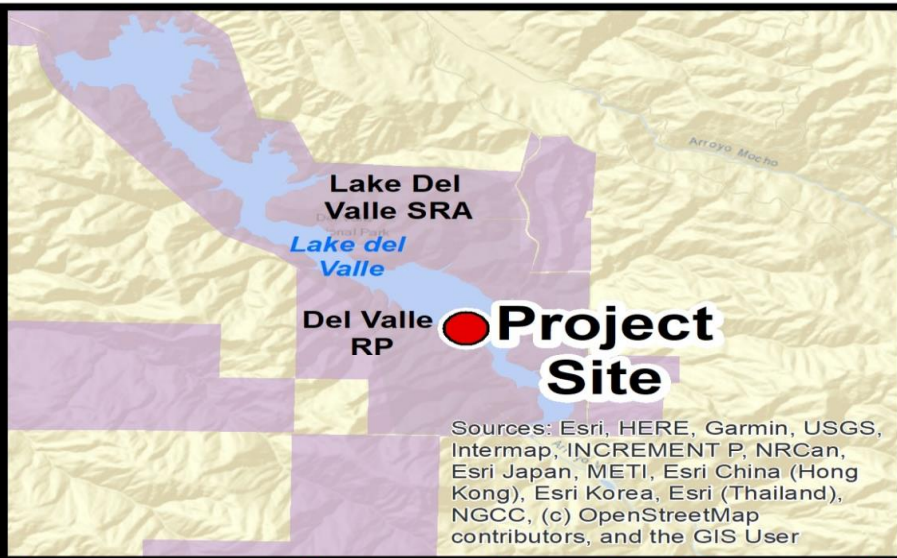


## 16. Upper Hess Creek Habitat Enhancement

Slide 4

Temporary exclusion fencing  
of wetland area.







# 17. Del Valle Regional Park Restroom Renovation

Slide 1

Del Valle Regional Park

View from Del Valle Road

Project Area







# 17. Del Valle Regional Park Restroom Renovation

Slide 2

Del Valle Regional Park near the Visitor Center and restroom location.



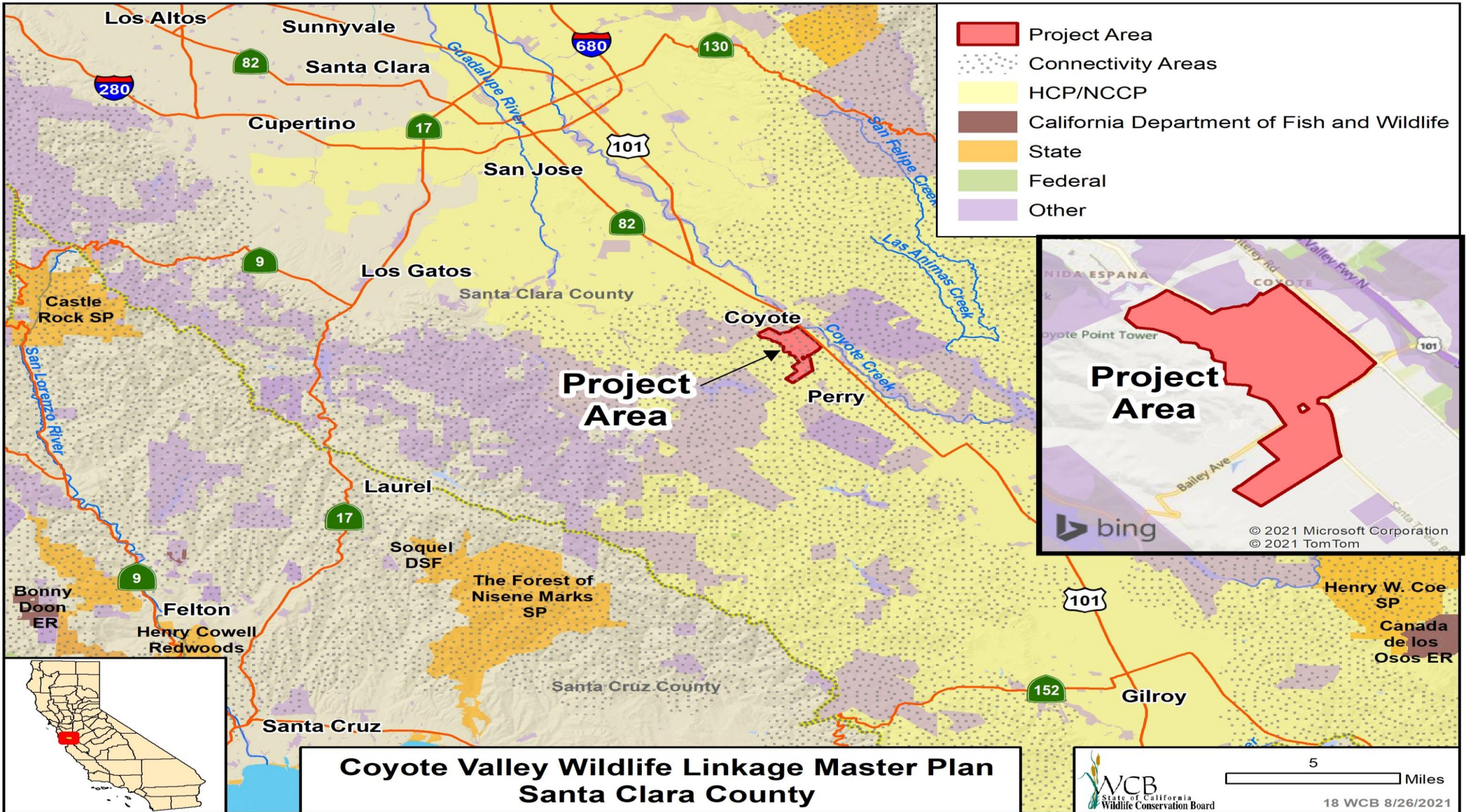


# 17. Del Valle Regional Park Restroom Renovation

Slide 3

Aging restroom to be replaced.





# Coyote Valley Wildlife Linkage Master Plan Santa Clara County





## 18. Coyote Valley Wildlife Linkage Master Plan

Slide 1



Looking south into Coyote Valley, a comparison of Laguna Seca from just prior to major draining of the wetland (December 1916) to 100 years later (December 2016). The January 2017 photo shows the same area after a recent flooding event, highlighting the potential for restoration.







# 18. Coyote Valley Wildlife Linkage Master Plan

Slide 2

View of Laguna Seca looking north





## 18. Coyote Valley Wildlife Linkage Master Plan

Slide 3

Looking west with valley floor of the  
Project properties in the foreground  
and Santa Cruz Mountains in the  
distance.





# 18. Coyote Valley Wildlife Linkage Master Plan

Slide 4

Looking east across Laguna Seca.





**18. Coyote Valley  
Wildlife Linkage Master  
Plan**

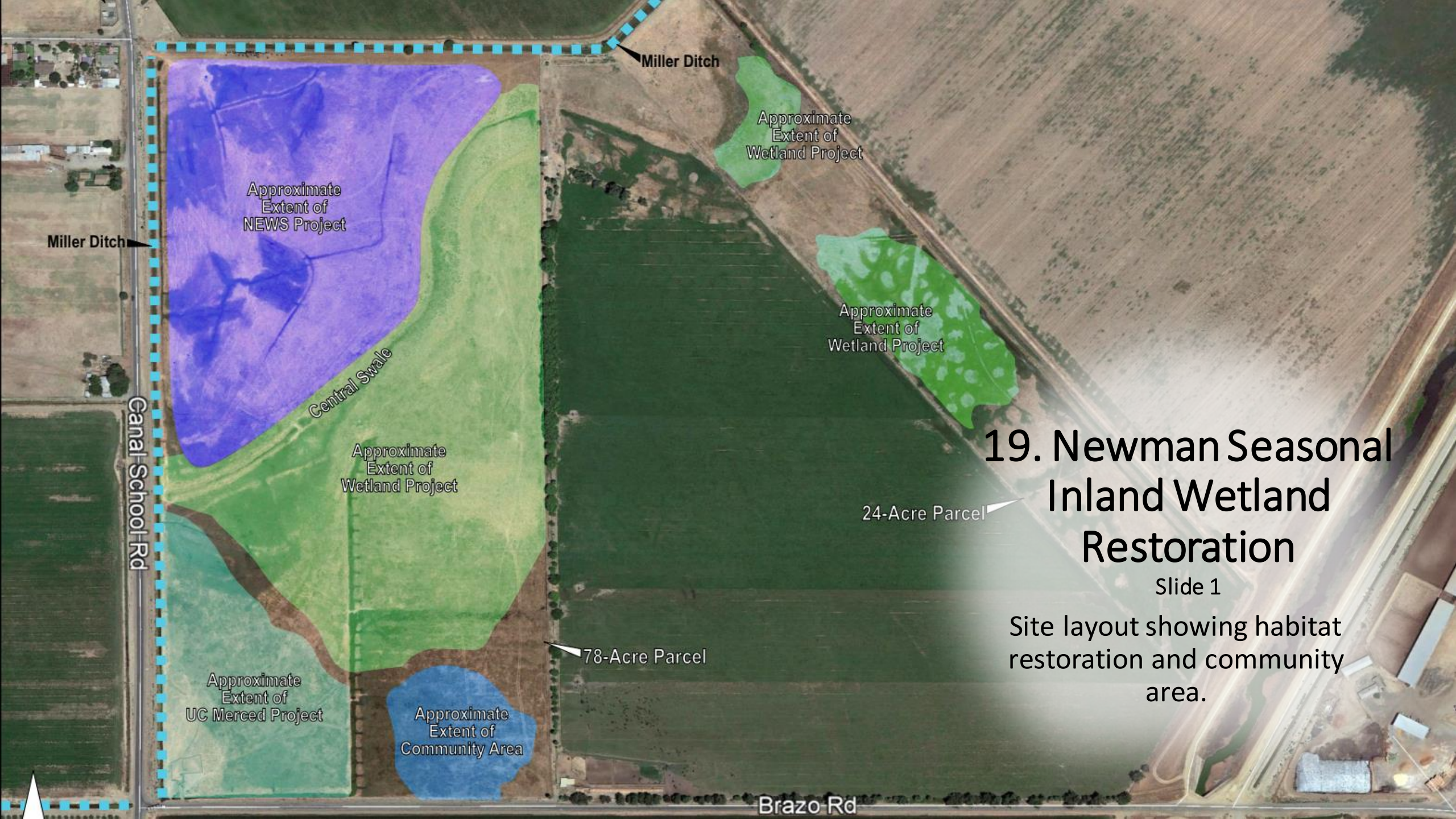
Slide 5

Yellow legs in Laguna Seca.









Miller Ditch

Approximate Extent of Wetland Project

Approximate Extent of NEWS Project

Miller Ditch

Approximate Extent of Wetland Project

Central Swale

Approximate Extent of Wetland Project

Canal School Rd

# 19. Newman Seasonal Inland Wetland Restoration

Slide 1

Site layout showing habitat restoration and community area.

24-Acre Parcel

78-Acre Parcel

Approximate Extent of UC Merced Project

Approximate Extent of Community Area

Brazo Rd





## 19. Newman Seasonal Inland Wetland Restoration

Slide 2

Current site conditions (dry season), NW  
corner of site, facing SE: degraded, level  
pasture to be restored to wetlands





## 19. Newman Seasonal Inland Wetland Restoration

Slide 3

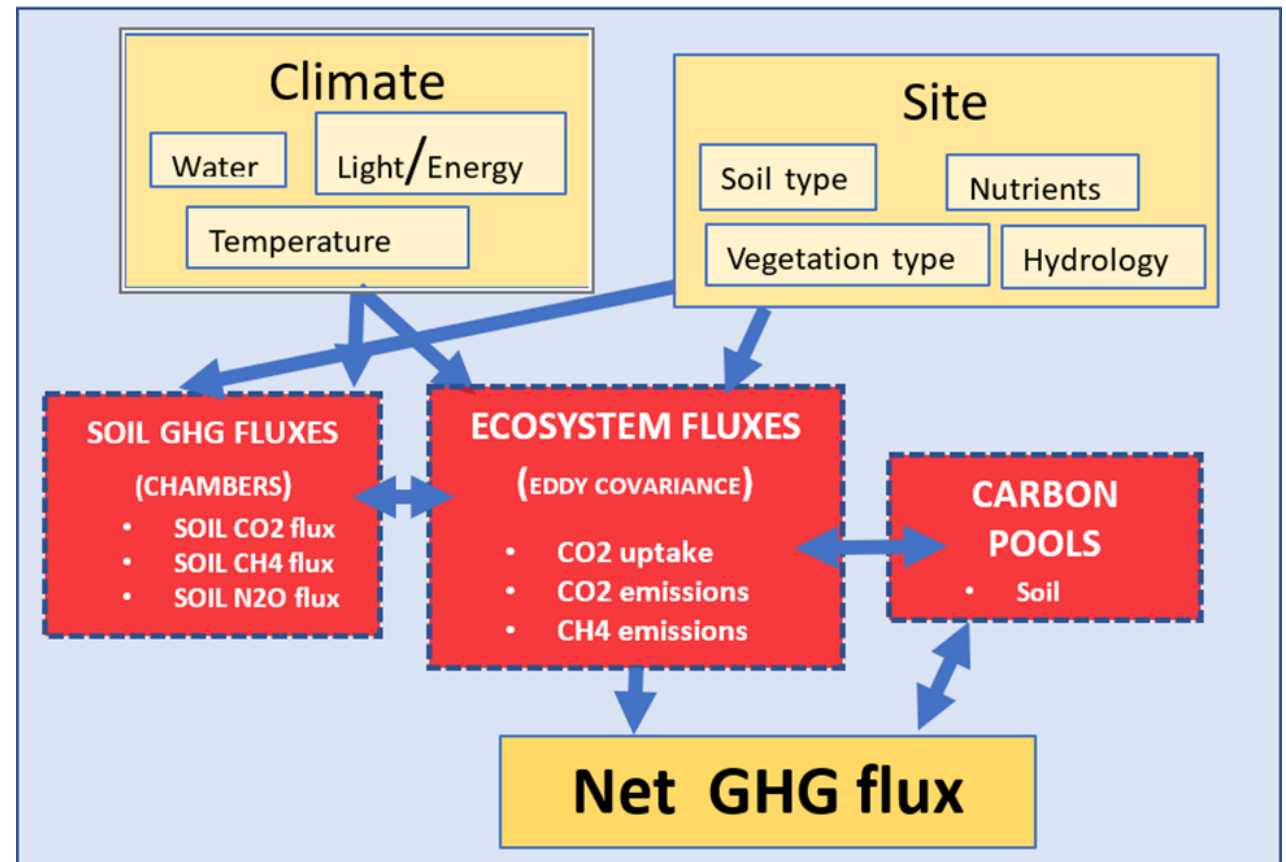
Current site conditions (wet season), SE corner of site, facing N: degraded pasture with some natural contouring, to be restored to wetlands.



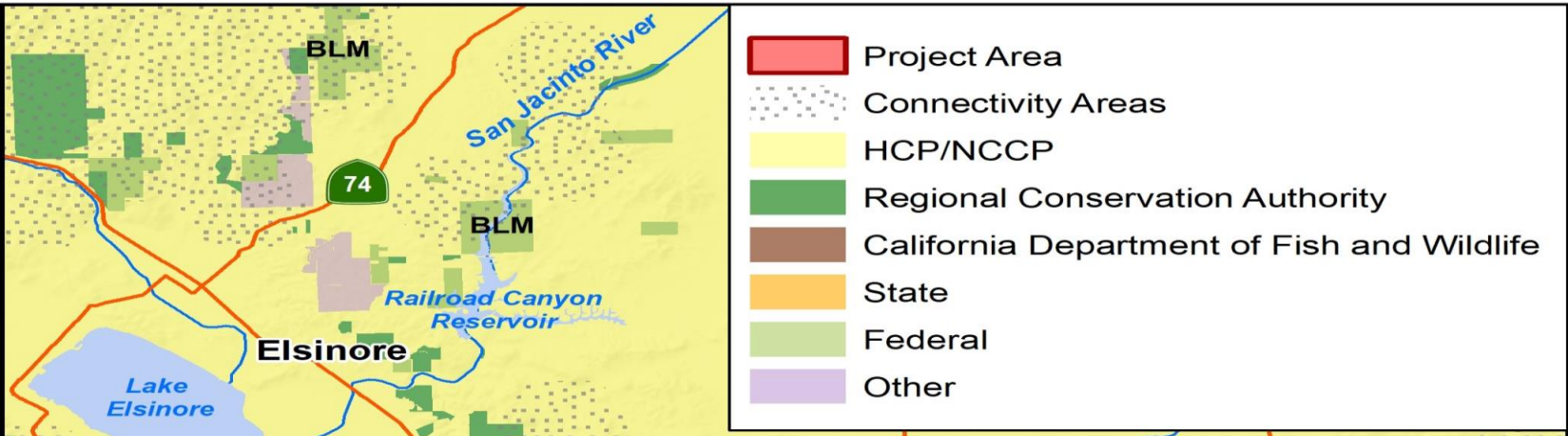
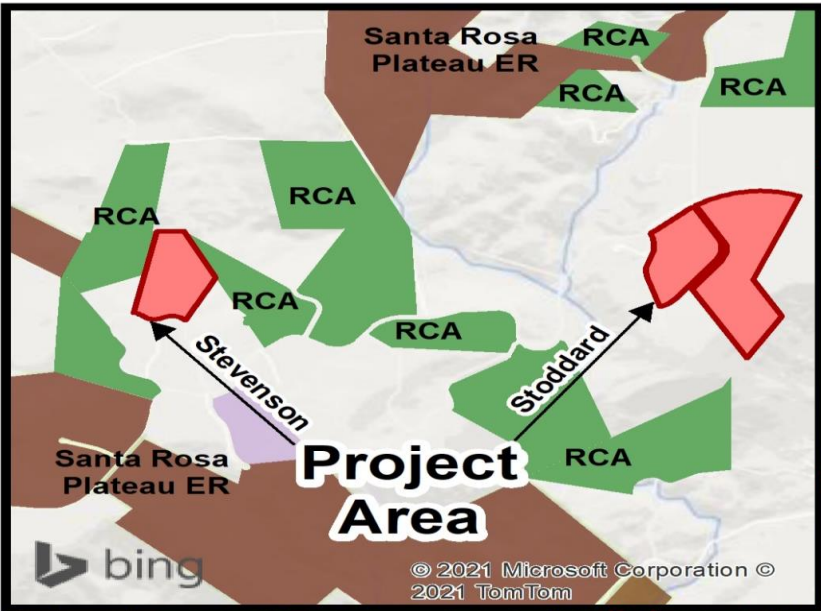
# 19. Newman Seasonal Inland Wetland Restoration

Slide 4

Climate and site characteristics:  
1) soil GHG fluxes; 2) ecosystem fluxes; and 3) carbon pools.  
These can be assessed to quantify and characterize the GHG dynamics of the seasonal wetlands.







**Western Riverside MSHCP (2017)  
Stevenson and Stoddard  
Riverside County**





# 20. Western Riverside MSHCP (2017) Stevenson

Slide 1





# 21. Western Riverside MSHCP (2017) Stoddard

Slide 1





# 21. Western Riverside MSHCP (2017) Stoddard

Slide 2

Project site





# 21. Western Riverside MSHCP (2017) Stoddard

Slide 3

Project site



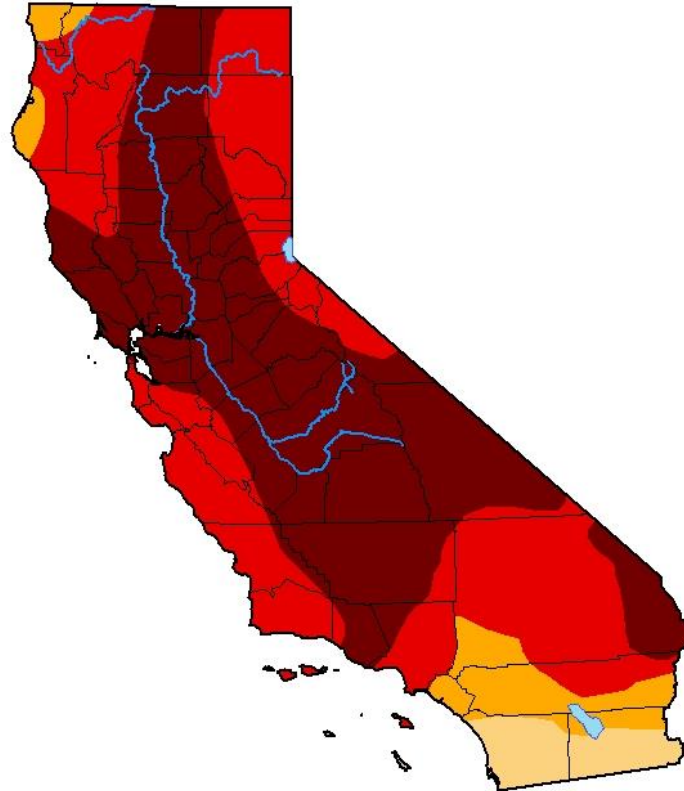
# 22. Reducing Drought Impacts in California

Slide 1

- As of August 17th, 88% of California is in an extreme and 49% is in an exceptional drought.

## U.S. Drought Monitor California

**August 17, 2021**  
(Released Thursday, Aug. 19, 2021)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	0.00	100.00	100.00	95.58	88.37	48.97
<b>Last Week</b> 08-10-2021	0.00	100.00	100.00	95.07	88.37	47.10
<b>3 Months Ago</b> 05-18-2021	0.00	100.00	100.00	94.31	73.33	15.91
<b>Start of Calendar Year</b> 12-29-2020	0.00	100.00	95.17	74.34	33.75	1.19
<b>Start of Water Year</b> 09-29-2020	15.35	84.65	67.65	35.62	12.74	0.00
<b>One Year Ago</b> 08-18-2020	20.55	79.45	54.22	21.72	3.04	0.00

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Author:

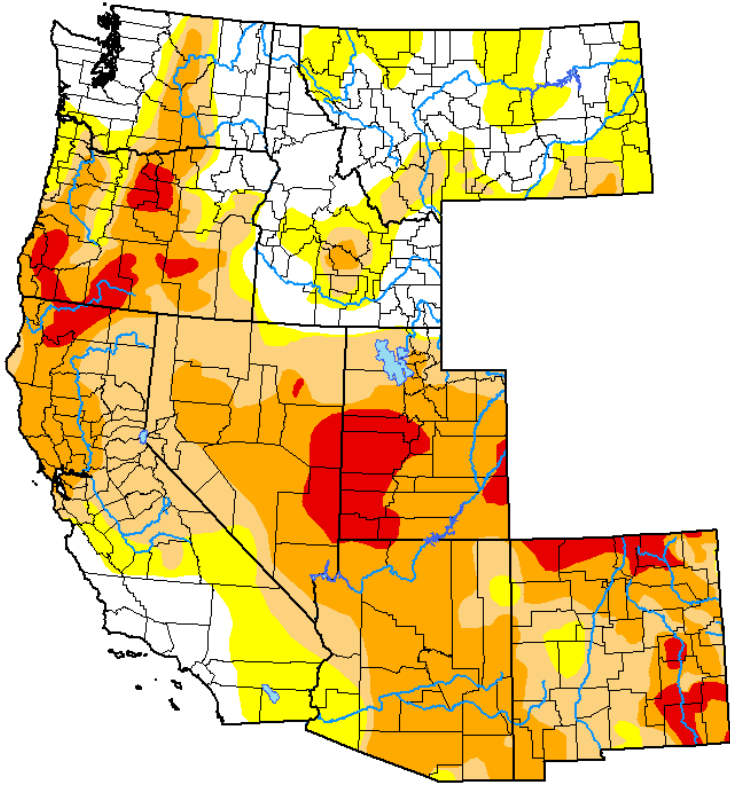
Curtis Riganti  
National Drought Mitigation Center



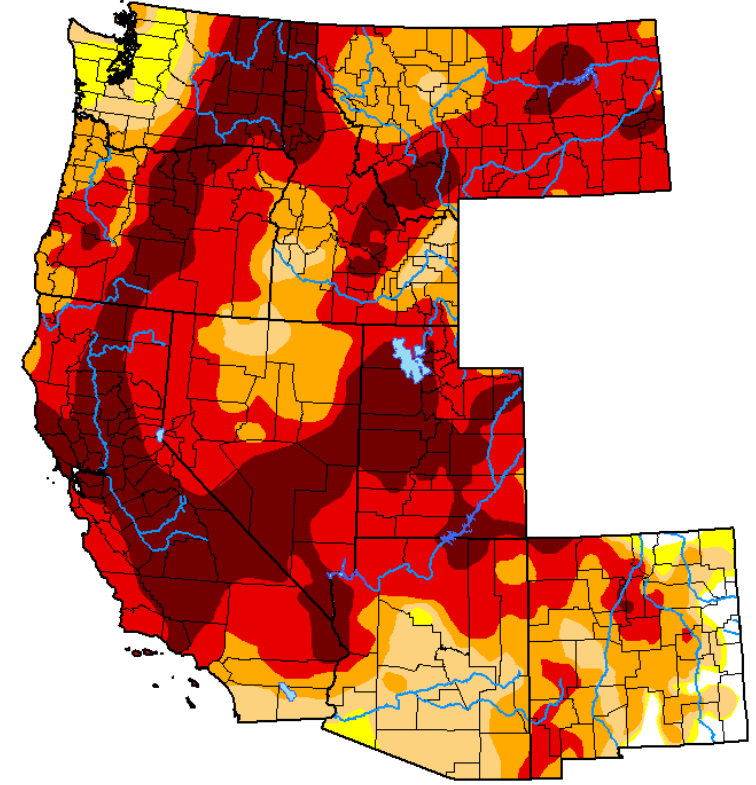
[droughtmonitor.unl.edu](https://droughtmonitor.unl.edu)



August 18, 2020



August 17, 2021



## 22. Reducing Drought Impacts in California

Slide 2

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# 22. Reducing Drought Impacts in California

Slide 3

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California Governor Gavin Newsom speaks during a press conference held on the dry Lake Mendocino Lakebed, in Mendocino County. April 21, 2021.



An aerial photograph of Lake Oroville, California, showing a significant drop in water levels. A large metal truss bridge spans across the riverbed, which is mostly dry and sandy. The surrounding landscape is arid and brown, with some green hills in the background under a blue sky with light clouds.

## 22. Reducing Drought Impacts in California

Slide 4

Lake Oroville July 26th.

Photo credit Kelly M. Grow California Department of Water Resources.





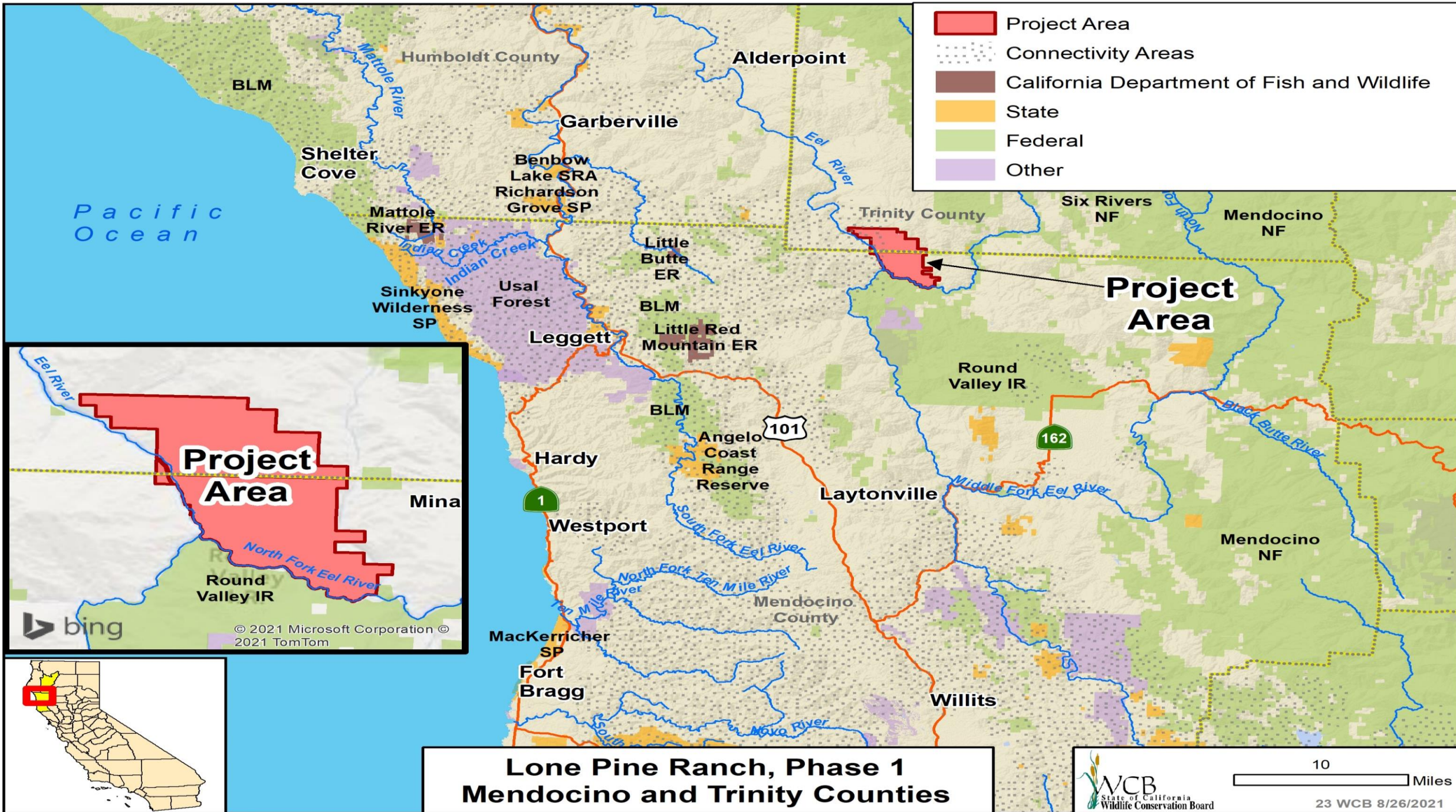
## 22. Reducing Drought Impacts in California

Slide 5

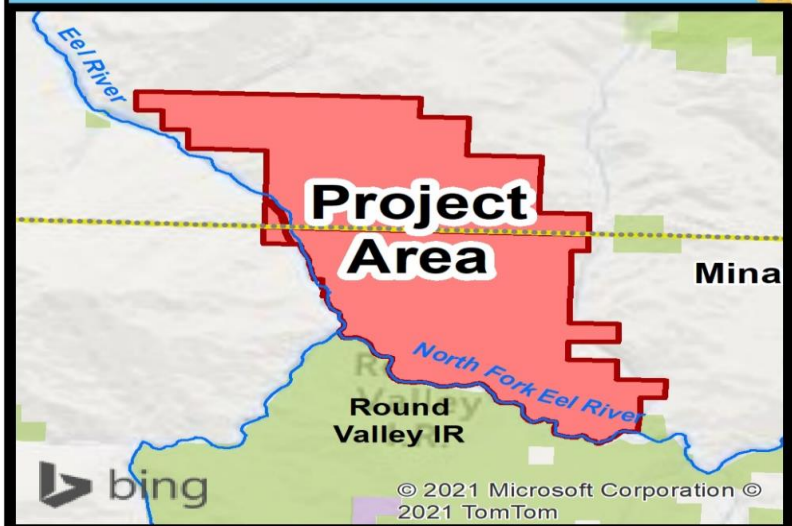
Nicasio Reservoir.

Photo Credit Department of Water Resources.






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



**Lone Pine Ranch, Phase 1  
Mendocino and Trinity Counties**





# 23. Lone Pine Ranch, Phase 1

Slide 1

Hillside view of the main  
stem of the Eel River



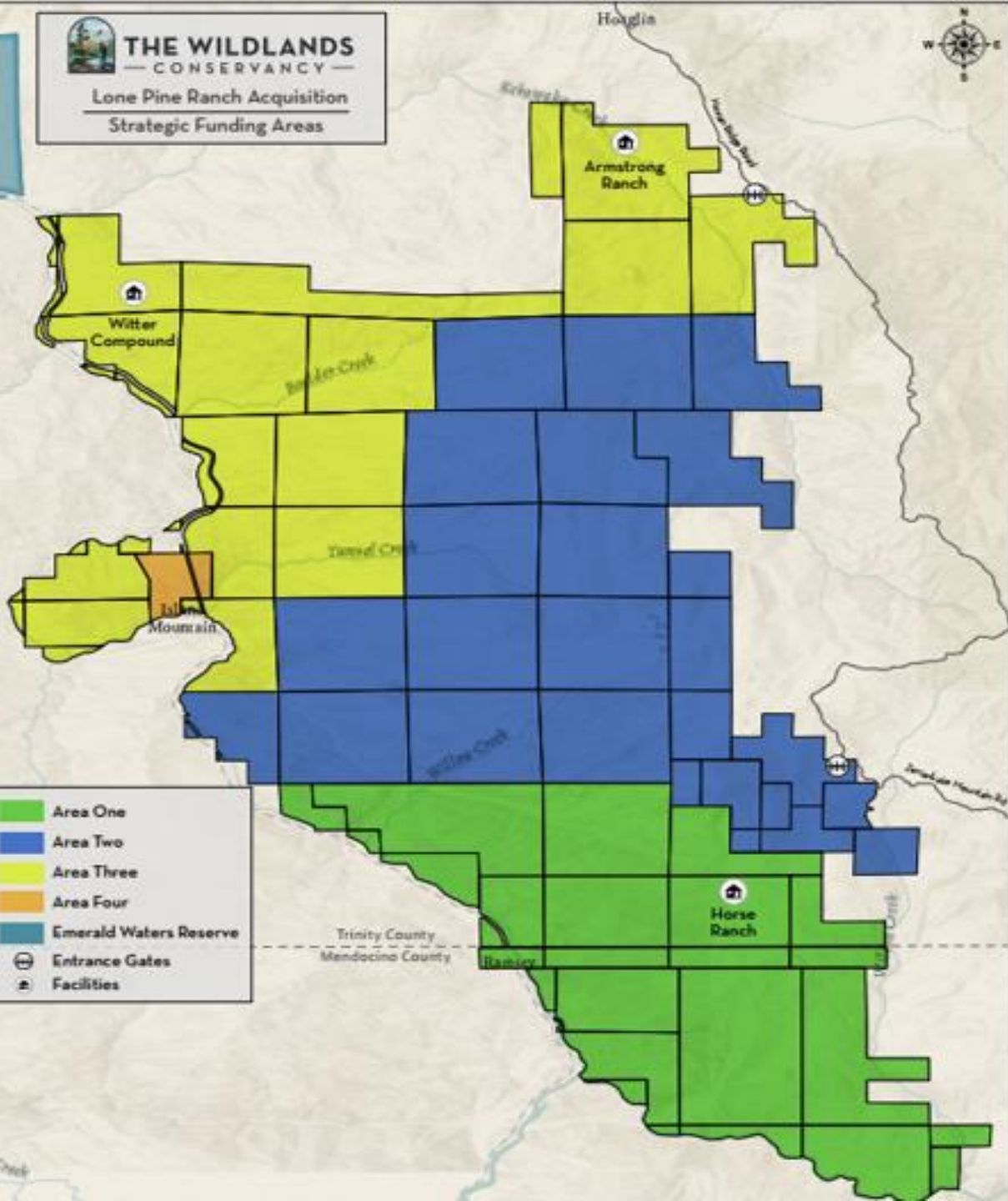
An aerial photograph of a river valley. The river flows from the top center towards the bottom center. The left bank is a steep, dry, brownish hillside with scattered green shrubs. The right bank is a steeper, more densely forested hillside with green trees. In the background, there are more hills under a blue sky with light clouds. A semi-transparent map overlay is visible on the left side of the image, showing a network of roads and property boundaries.

## 23. Lone Pine Ranch, Phase 1

Slide 2

North Fork Eel River along  
the southern boundary of  
the Property





# 23. Lone Pine Ranch, Phase 1

Slide 3






# 23. Lone Pine Ranch, Phase 1

Slide 4

Lone Pine Ranch Horse Ranch  
Compound





## 23. Lone Pine Ranch, Phase 1

Slide 5

Hillside view of a typical  
ranch road on the Property





# 23. Lone Pine Ranch, Phase 1

Slide 6

Deer on a mountain ridgeline  
of the Property



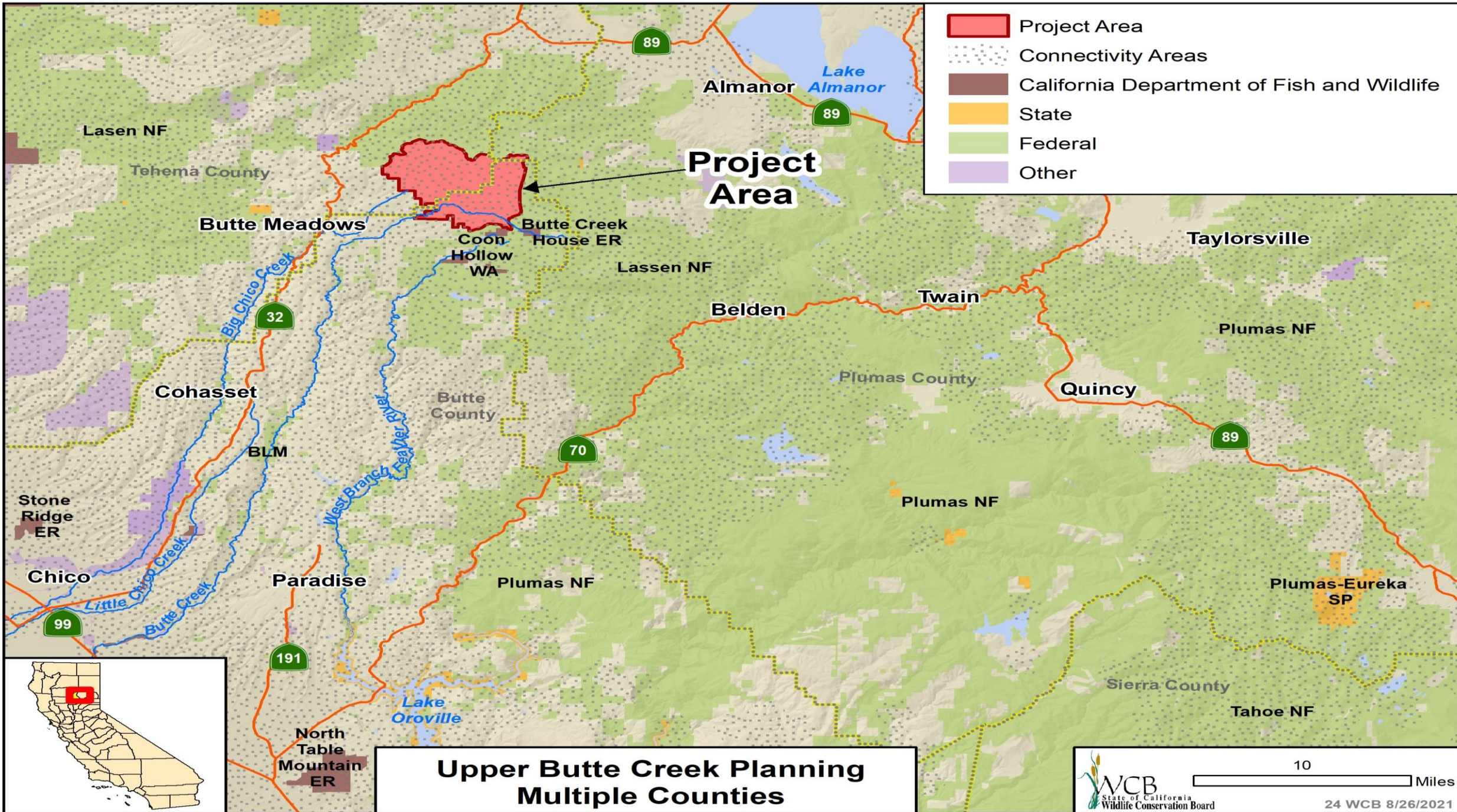


## 23. Lone Pine Ranch, Phase 1

Slide 7

Seasonal wetland nearby  
the Horse Ranch  
Compound





# Upper Butte Creek Planning Multiple Counties





# 24. Upper Butte Creek Planning

Slide 1

Colby Meadows in project  
area

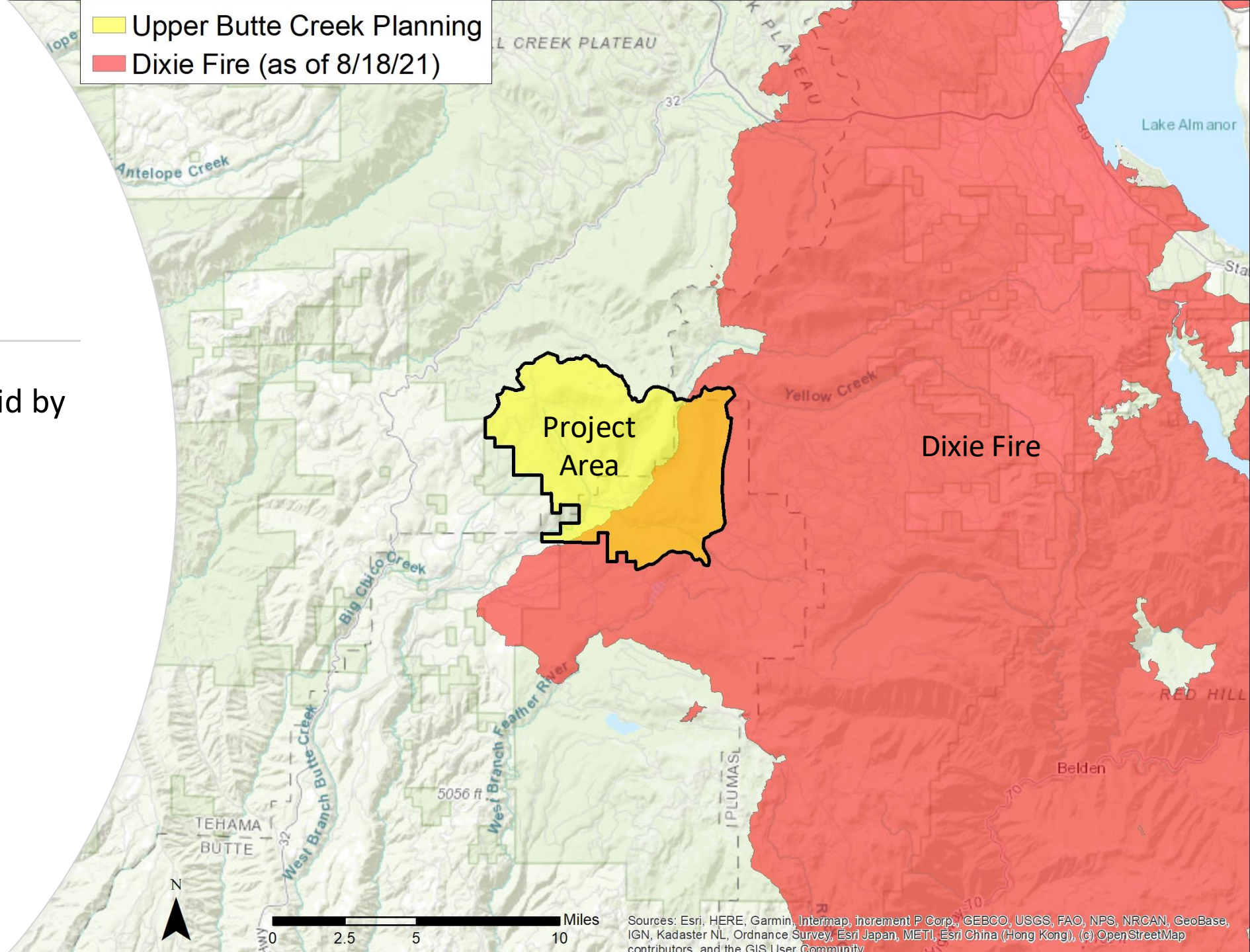
(credit: Thad Walker- Butte  
County RCD).



# 24. Upper Butte Creek Planning

Slide 2

Dixie Fire boundary overlaid by project area







## 24. Upper Butte Creek Planning

Slide 3

High fuel load along a roadside in  
project area

(credit: Thad Walker- Butte County  
RCD).





## 24. Upper Butte Creek Planning

Slide 4

Off-Highway Vehicle traffic through  
meadow habitat in project area

(credit: Thad Walker- Butte County  
RCD).





## 24. Upper Butte Creek Planning

Slide 5

Stream bank erosion

(credit: Thad Walker- Butte County  
RCD).





## 24. Upper Butte Creek Planning

Slide 6

Jonesville Snow Park Staging Area,  
undersized and degraded.

(credit: Thad Walker- Butte County RCD).





## 24. Upper Butte Creek Planning

Slide 7

Aspen Stand to be  
evaluated for enhancement  
opportunities.

(credit: Thad Walker- Butte  
County RCD).



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



**English Meadow Restoration  
Nevada and Sierra Counties**



# 25. English Meadow Restoration

Slide 1

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English Meadow with Jackson Meadows Reservoir in the background.

(credit: Nevada Irrigation District).





A photograph of a dense forest of evergreen trees. In the foreground, a person wearing a blue jacket, a blue cap, and a high-visibility vest with orange and yellow stripes is walking away from the camera on a dirt path. The path is covered with fallen pine needles and some snow. The trees are tall and thin, with some showing signs of being dead or dormant. The lighting is bright, suggesting a sunny day, and the overall atmosphere is that of a natural, wooded area.

## 25. English Meadow Restoration

Slide 2

Dense forest surrounding  
English Meadow

(credit: Nevada Irrigation  
District)





## 25. English Meadow Restoration

Slide 3

Conifer encroachment  
in English Meadow.

(credit: Nevada Irrigation  
District)



# 25. English Meadow Restoration

Slide 4

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Incised river channel and eroded bank in Middle Yuba River.

(credit: Nevada Irrigation District)





# 25. English Meadow Restoration

Slide 5

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Stream gage downstream of English Meadow on the Middle Yuba River mainstem

(credit: Nevada Irrigation District).







## 25. English Meadow Restoration

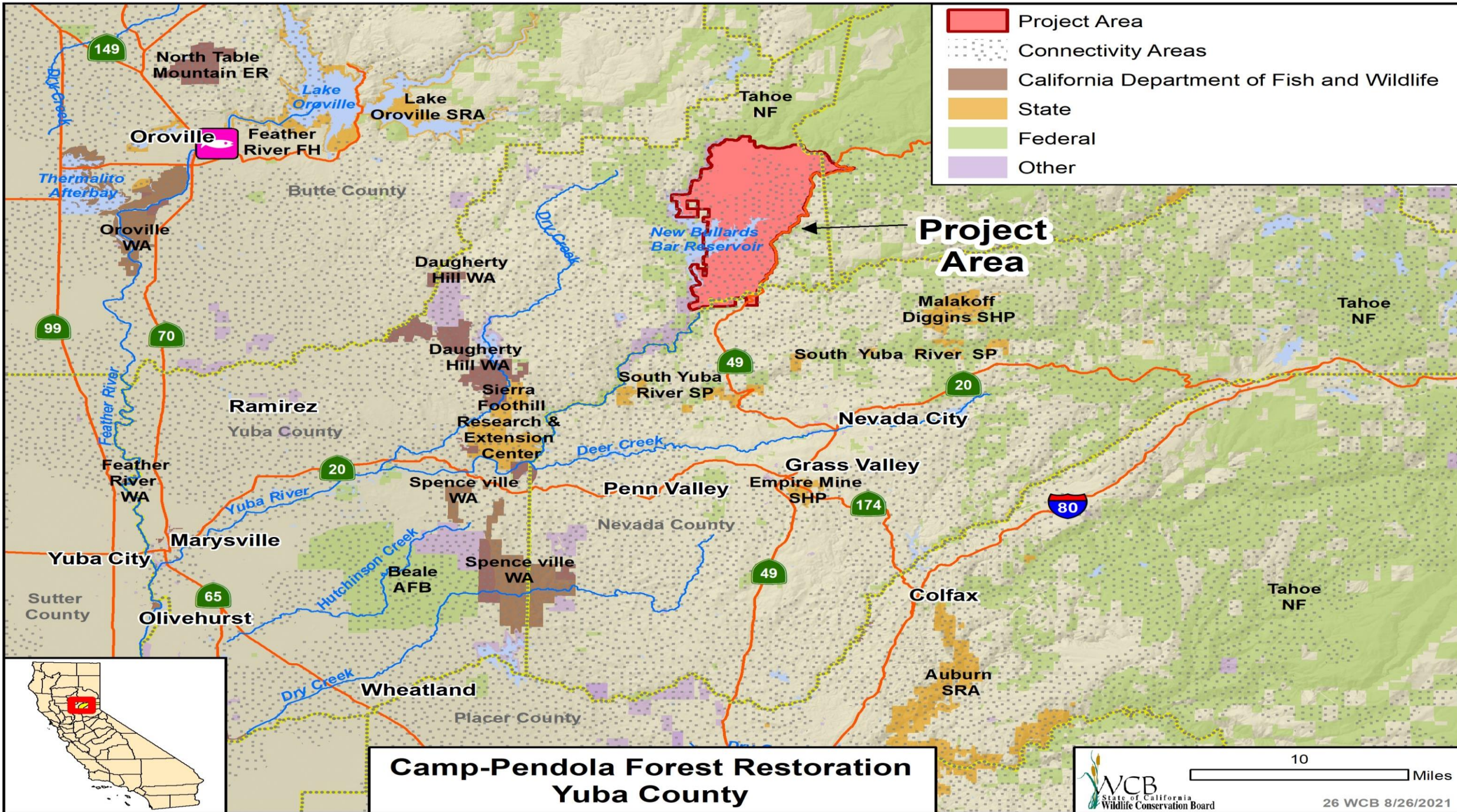
Slide 6

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Aspen stand along Middle  
Yuba River

(credit: Nevada Irrigation District)





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

**Project Area**

**Camp-Pendola Forest Restoration  
Yuba County**

10 Miles

WCB  
 State of California  
 Wildlife Conservation Board

26 WCB 8/26/2021



# 26. Camp- Pendola Forest Restoration

Slide 1

- New Bullards Reservoir (below)
- Creek in project area (right)







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## 26. Camp-Pendola Forest Restoration

Slide 2

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Potential bald eagle  
nesting habitat along New  
Bullards Bar Reservoir

(credit: National Forest  
Foundation)



# 26. Camp-Pendola Forest Restoration

Slide 3

Structurally homogenous,  
overstocked hardwood and brush

(credit: National Forest Foundation)







# 26. Camp-Pendola Forest Restoration

Slide 4

Madrone resprouts targeted for hardwood culturing





# 26. Camp-Pendola Forest Restoration

Slide 5

Scotch broom infestation



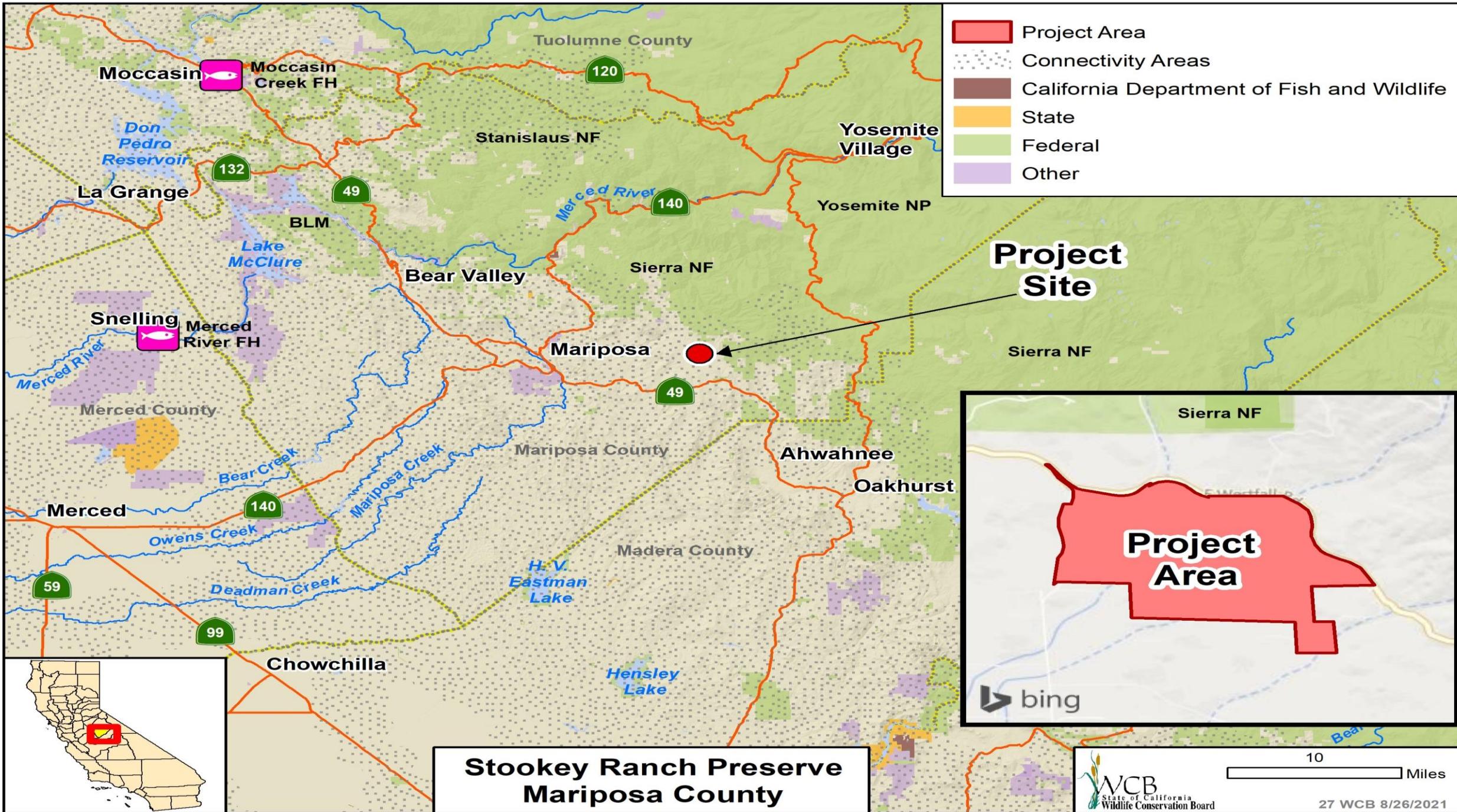


# 26. Camp-Pendola Forest Restoration

Slide 6

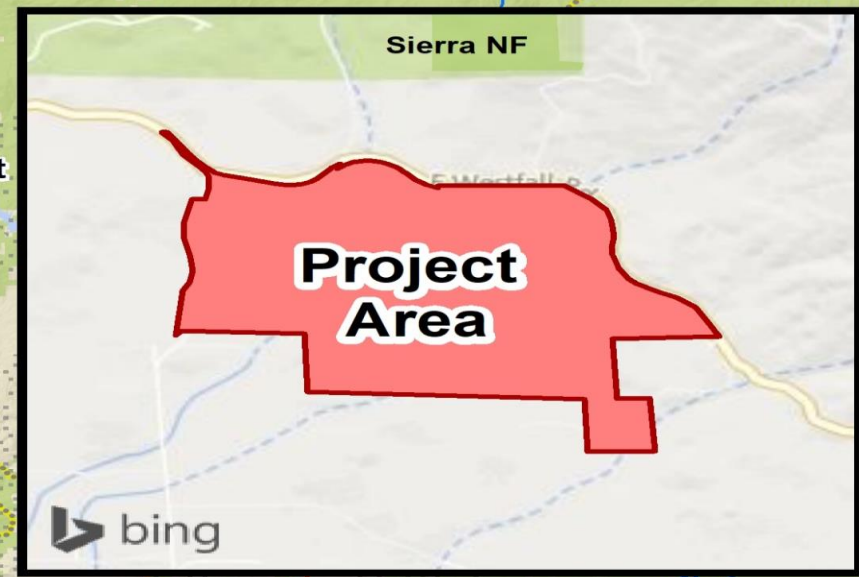
New Bullards Bar  
Reservoir





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

**Project Site**



**Stookey Ranch Preserve  
Mariposa County**



10 Miles



# 27. Stookey Ranch Preserve

Slide 1

Distant view of waterfall on  
property.





# 27. Stookey Ranch Preserve

Slide 2

Large black oaks, such as this one, provide snags important for avian activities.

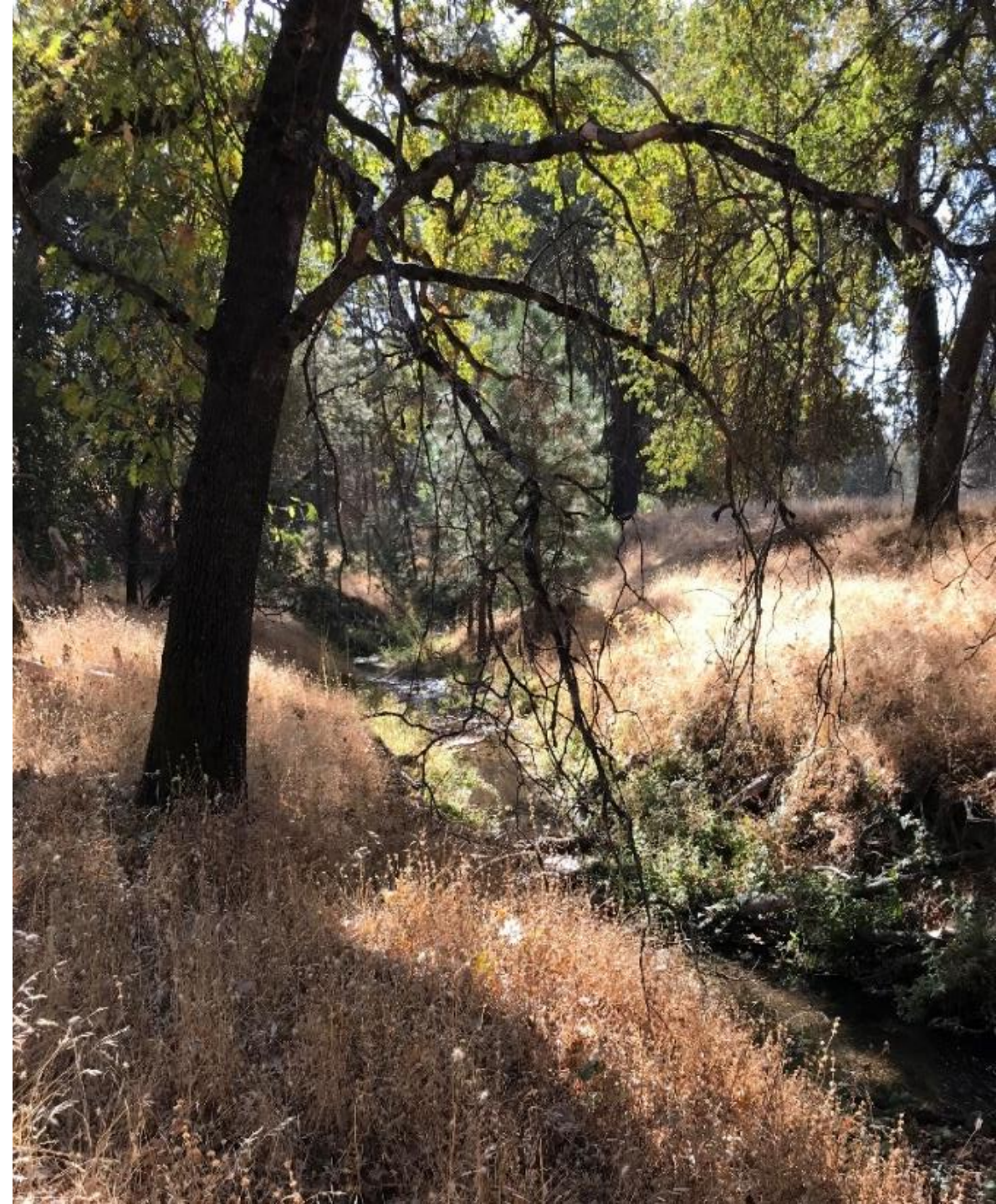




## 27. Stookey Ranch Preserve

Slide 3

Over one and a half miles of seasonal creeks throughout the property offer abundant and high-quality riparian corridor habitat







## 27. Stookey Ranch Preserve

Slide 4

One of the four ponds on the  
Property. These ponds offer  
nearly year-round wetland  
habitat opportunities



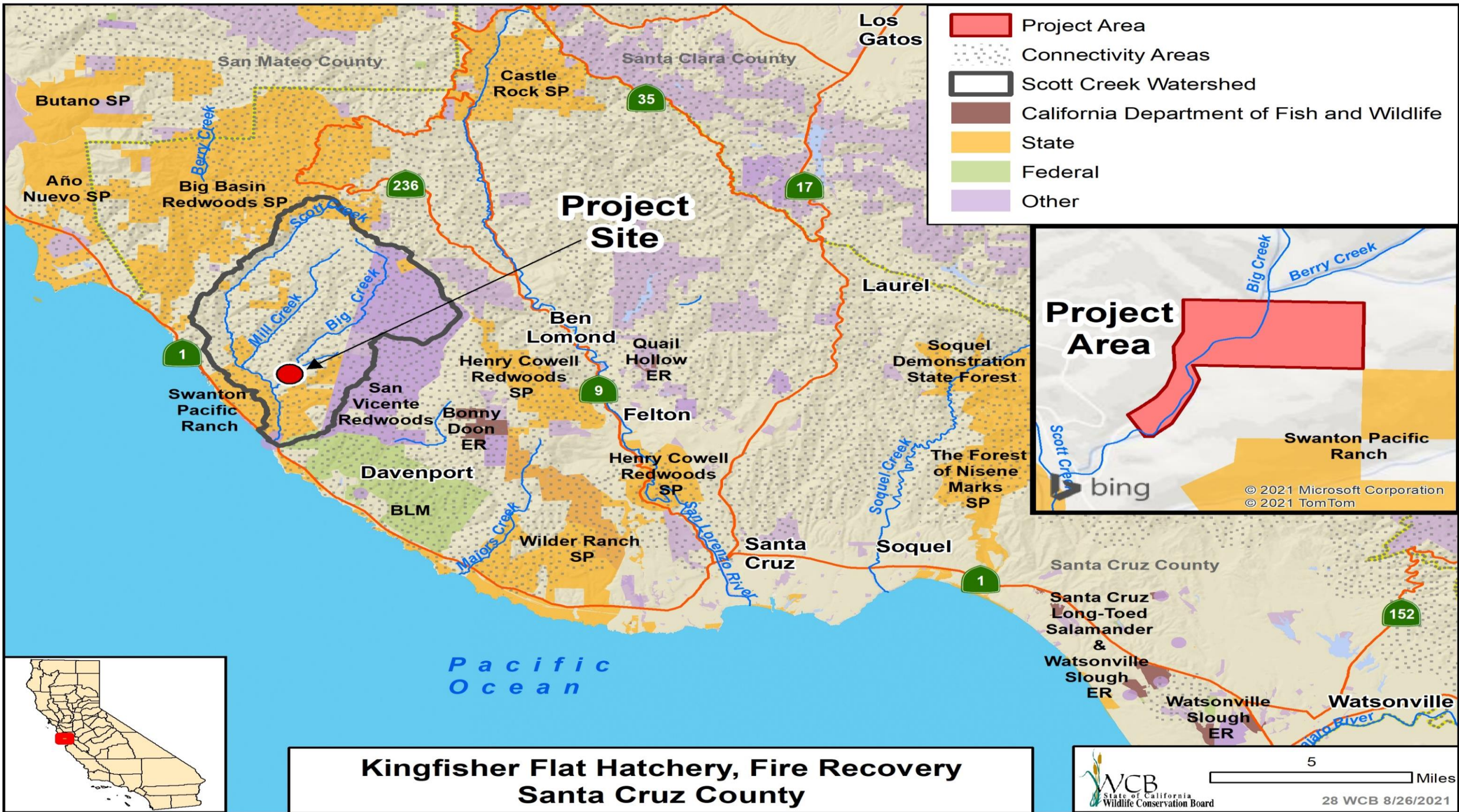


## 27. Stookey Ranch Preserve

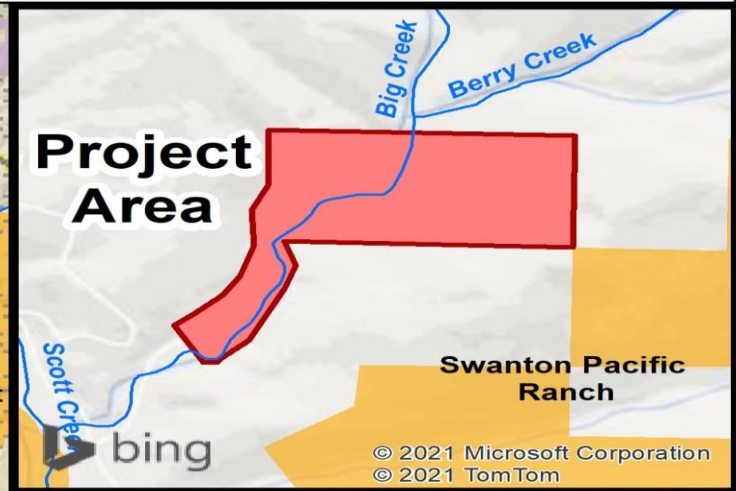
Slide 5

A bear track. Landowner and staff witnessed a black bear on the property during a site visit in October 2019





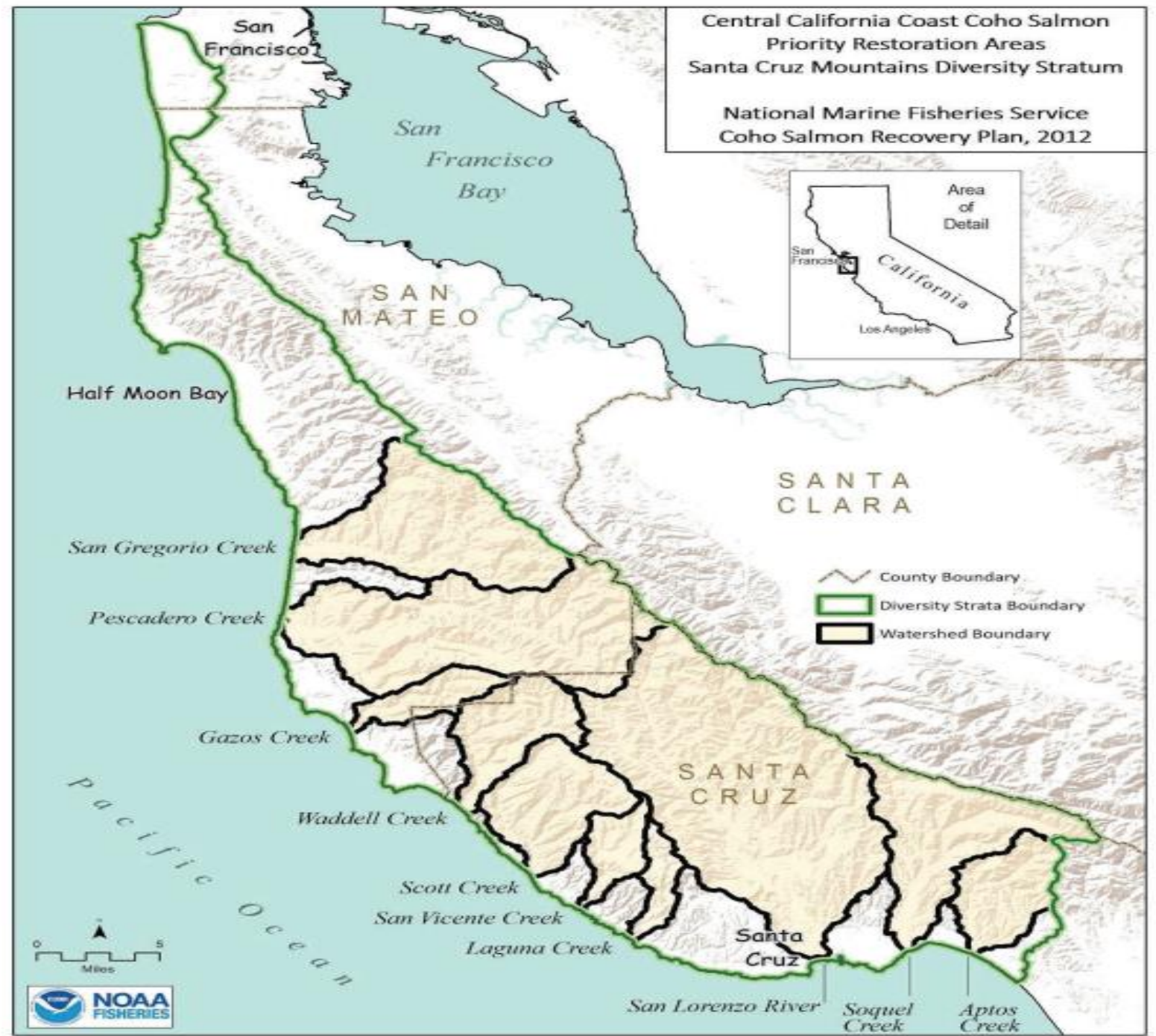
- Project Area
- Connectivity Areas
- Scott Creek Watershed
- California Department of Fish and Wildlife
- State
- Federal
- Other



**Kingfisher Flat Hatchery, Fire Recovery  
Santa Cruz County**



28. Kingfisher Flat  
Hatchery, Fire Recovery  
Slide 1





## 28. Kingfisher Flat Hatchery, Fire Recovery

Slide 2

### HATCHERY VALUES

- Superior captive broodstock program
- Highest fertilization success rate (75-85%)
- Highest emergence to survival (40-60%)
- Contributes to 100,000 juvenile coho salmon released each year
- Maintains crucial genetic resources
- Identified as highest priority in State and federal recovery plans for Central California Coast coho salmon



*Eggs and hatched coho alevin in heath tray incubator at Kingfisher Flat Hatchery*



*Coho parr in tank at Kingfisher Flat Hatchery*



## 28. Kingfisher Flat Hatchery, Fire Recovery

Slide 3

### PROJECT NEED

August 2020 CZU Lightning Complex fire destroyed 60% of outdoor rearing facilities, including:

- Pools, tanks, and protection canopies
- Plumbing and electrical
- Bridge access
- Big Creek retaining wall
- Water tank and toilet/ changing room

PRE-FIRE



POST-FIRE





## 28. Kingfisher Flat Hatchery, Fire Recovery

Slide 4

### SOLUTION - Infrastructure Repairs

- Complete engineering, 100% designs, and permitting for bridge repairs, bathroom and septic system, and bank stabilization
- Complete bridge repairs
- Construct septic system and 8' x 16' bathroom connected to 10,000-gallon water storage tank
- Stabilize vertical cut bank on Big Creek and naturalize with native riparian vegetation



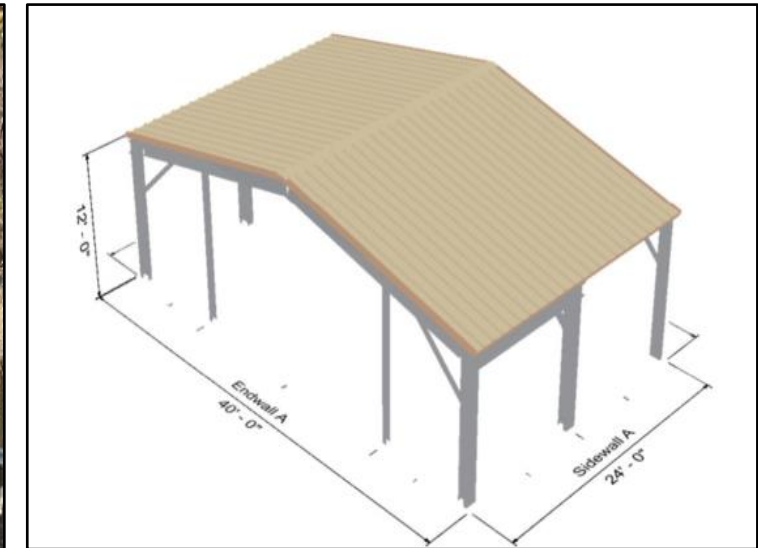


## 28. Kingfisher Flat Hatchery, Fire Recovery

Slide 5

### SOLUTION – Hatchery Facility Repairs

- Site prep for hatchery facilities
  - Fill unused, upper raceway with gravel
  - Install fittings, pipe, valves, electrical, and water circulation features for new pools and tanks
- Install four new pools and six holding tanks in upper raceway and one new pool in lower raceway.
- Install predator protection covers over each tank and a 24'x 40' steel shade structure to shade fish spawning.





28. Kingfisher Flat  
Hatchery, Fire Recovery  
Slide 6

Questions?



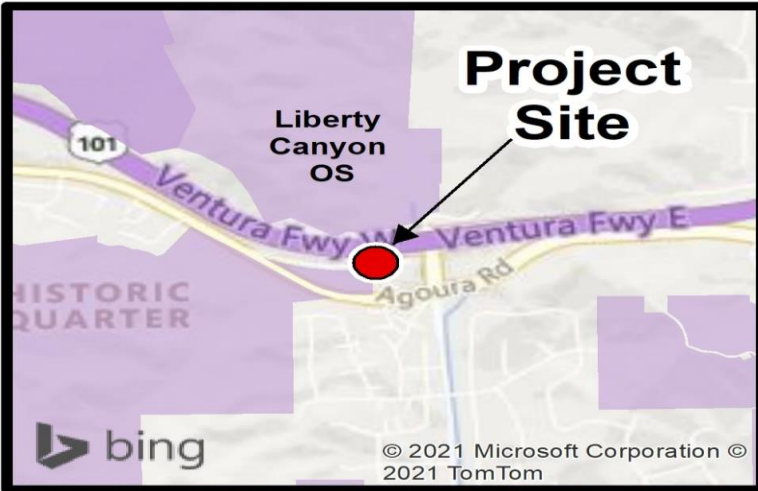
*Coho smolts after release to Big Creek in spring 2020*



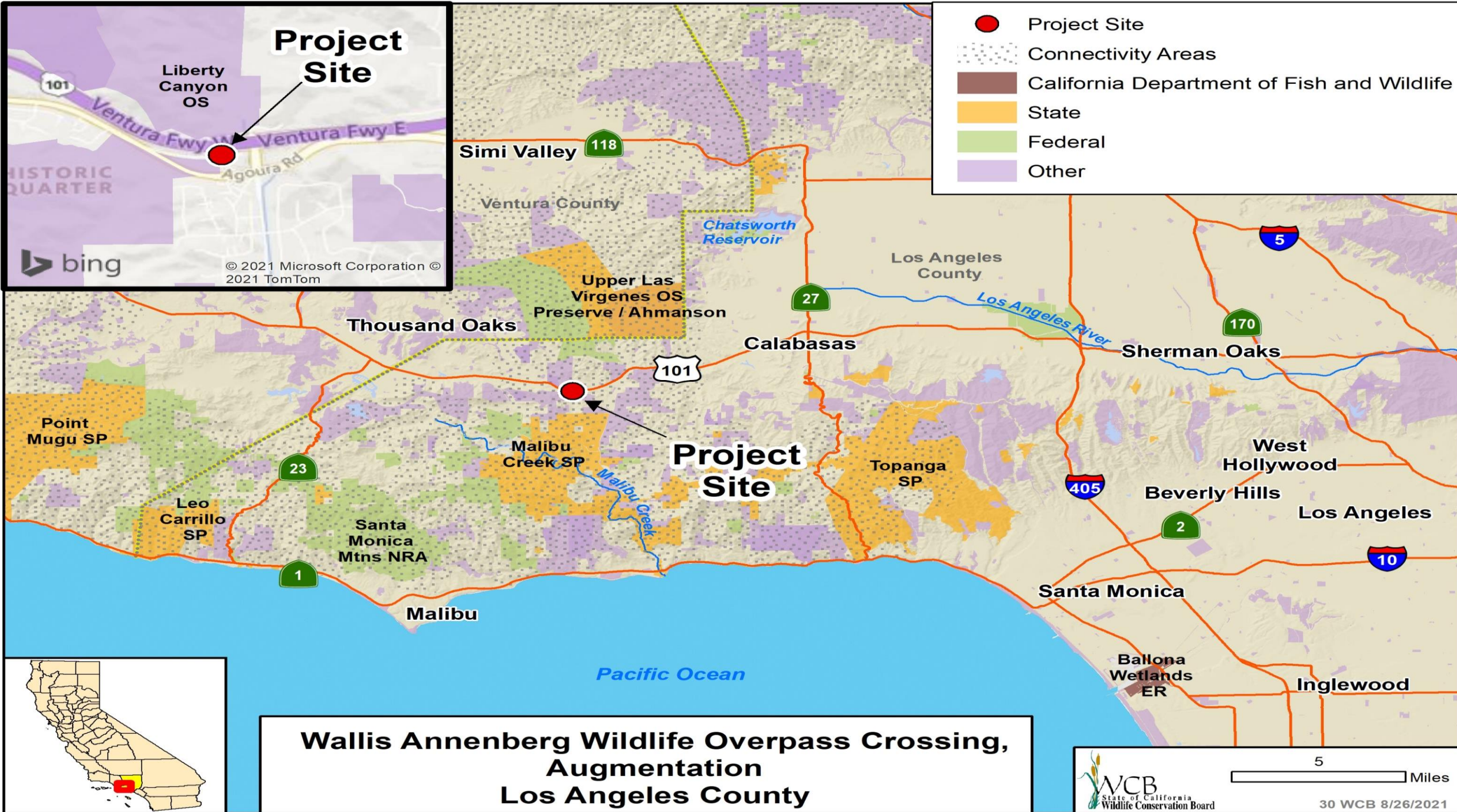
# 29. Carr Lake Restoration Planning

Withdrawn from consideration at this time





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



**Wallis Annenberg Wildlife Overpass Crossing,  
Augmentation  
Los Angeles County**

WCB  
State of California  
Wildlife Conservation Board

5 Miles

30 WCB 8/26/2021



# 30. Wallis Annenberg Wildlife Crossing, Augmentation

Slide 1



- Open space and protected areas near proposed project



# 30. Wallis Annenberg Wildlife Crossing, Augmentation

Slide 2



- Mountain lions in the Santa Monica Mountains face extinction due to inbreeding within the next 50 years
- Loss and fragmentation of habitat by roads and development
- Lowest genetic diversity of any mountain lion population ever documented
- South Coast Missing Linkages Project identified this linkage as one of the highest priority linkages
- CDFW Priority Wildlife Barrier
- Drought conditions have increased urgency









# 30. Wallis Annenberg Wildlife Crossing, Augmentation

Slide 4



Artist conception of proposed overpass



# 30. Wallis Annenberg Wildlife Crossing, Augmentation

Slide 5



Close up of overpass



Artist's conception of driver's experience



# 30. Wallis Annenberg Wildlife Crossing, Augmentation

Slide 6



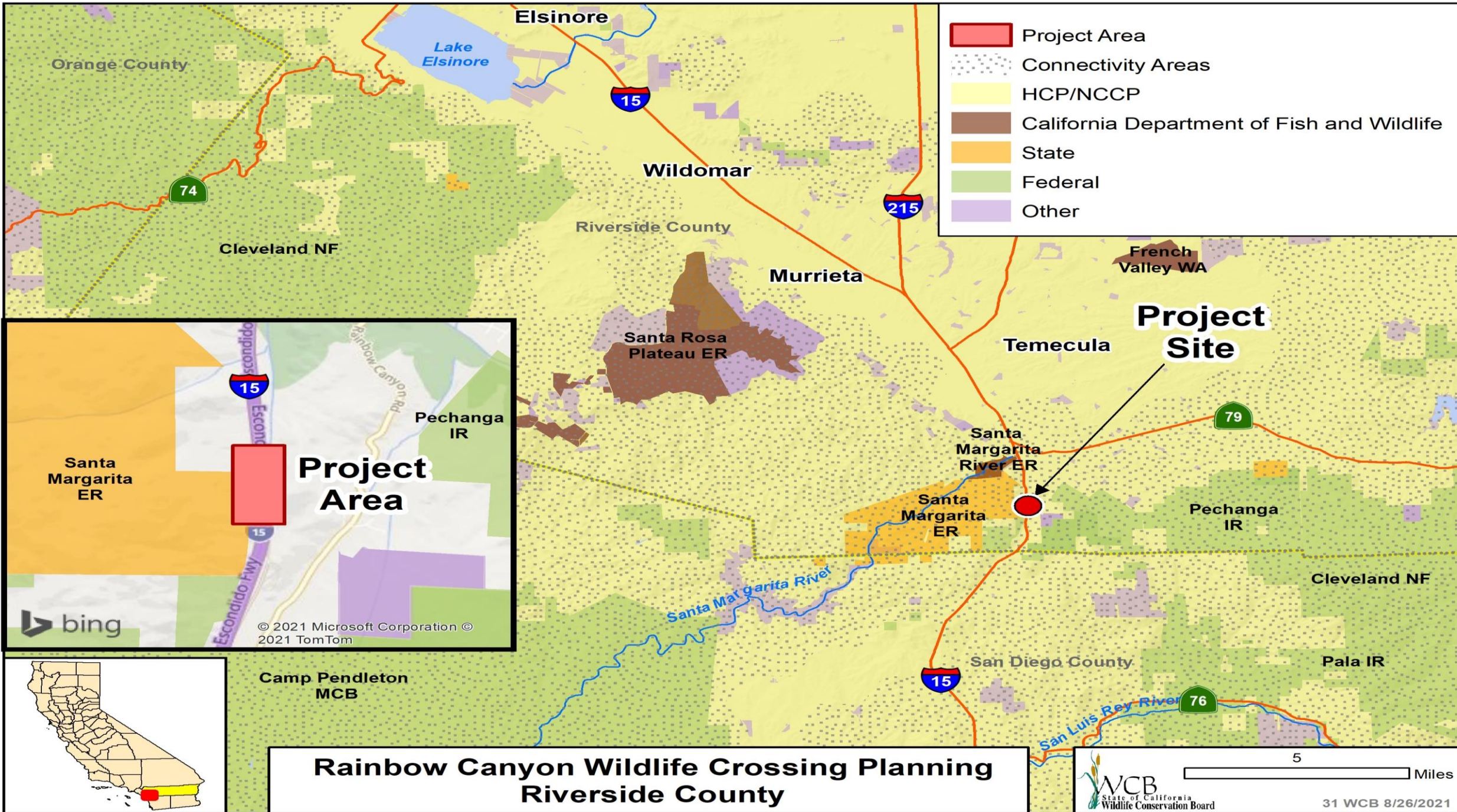
#SaveLACougars Rally



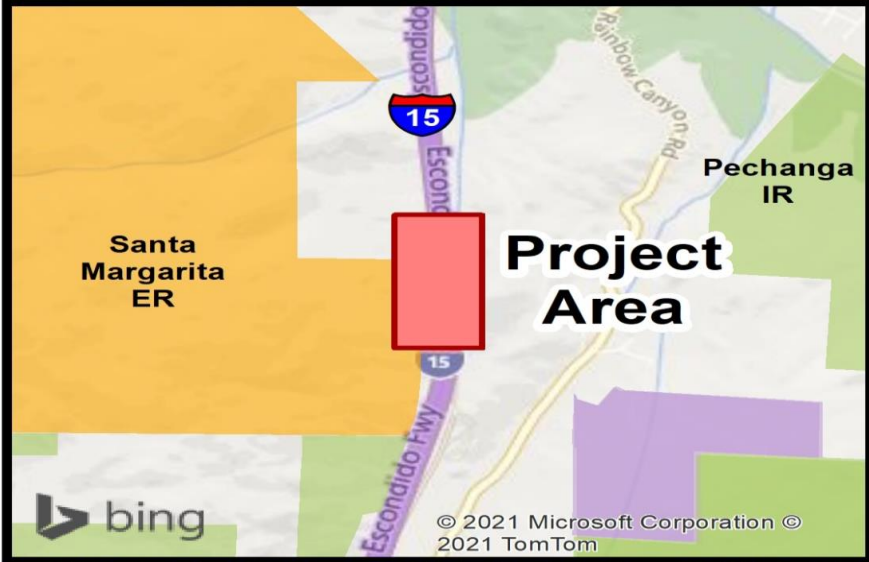
Governor Gavin Newsom and Beth Pratt from NWF

Photos: National Wildlife Federation





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

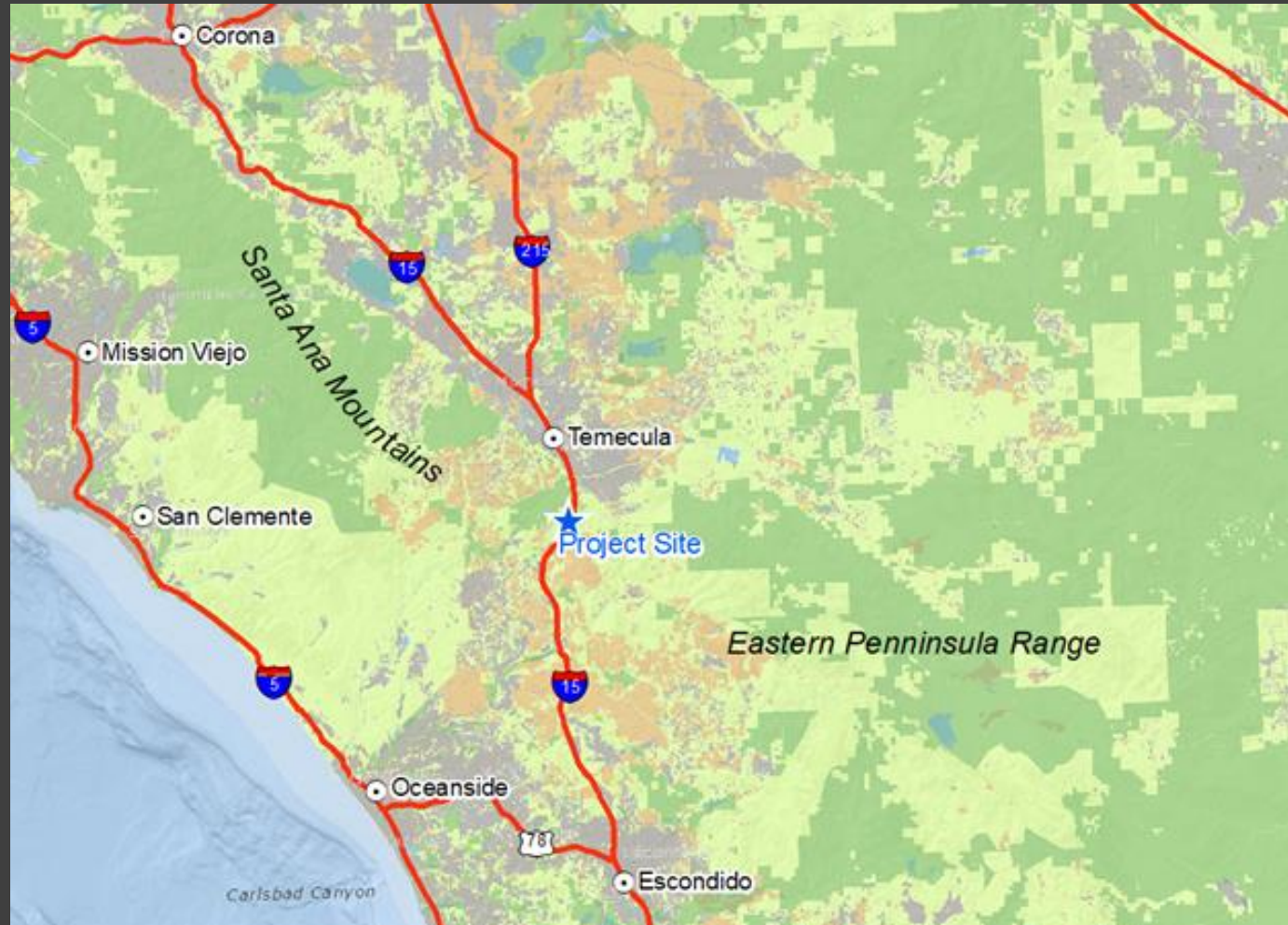


**Rainbow Canyon Wildlife Crossing Planning  
Riverside County**



# 31. Rainbow Canyon Wildlife Crossing Planning

Slide 1



Project Location



# 31. Rainbow Canyon Wildlife Crossing Planning

Slide 2



Rainbow Canyon



# 31. Rainbow Canyon Wildlife Crossing Planning

Slide 3



Mountain lion examining culvert under 1-15

- The Santa Ana Mountains mountain lion population has been greatly impacted by the loss of habitat connectivity
  - This population may be extirpated within 50 years
  - Possibly as early as 12 years if inbreeding depression becomes an issue
- Eastern Peninsular Ranges populations will also begin to experience the same if connectivity is not restored in the next decade
- CDFW's 2020 Wildlife Barrier Priority List.



# 31. Rainbow Canyon Wildlife Crossing Planning

Slide 4

## Project Goals

- Evaluate alternatives and environmental effects of vegetated wildlife overcrossing and undercrossing structures
  - Designs
  - Environmental review
  - Permitting
- Any crossing structure will focus on connectivity needs of mountain lion and other wildlife species:
  - Bobcat
  - Fox
  - Mule deer
- Will help ensure the protection of a regional ecological gradient from the coast to the desert

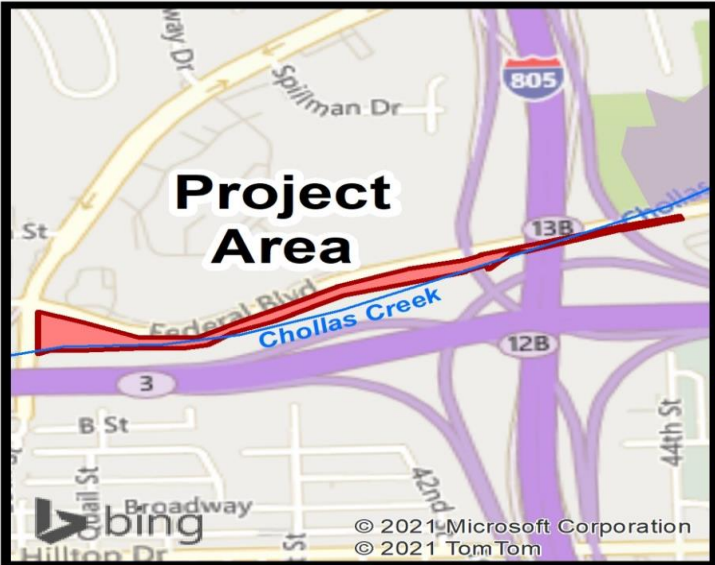


Bobcat looking into culvert on west side of I-15

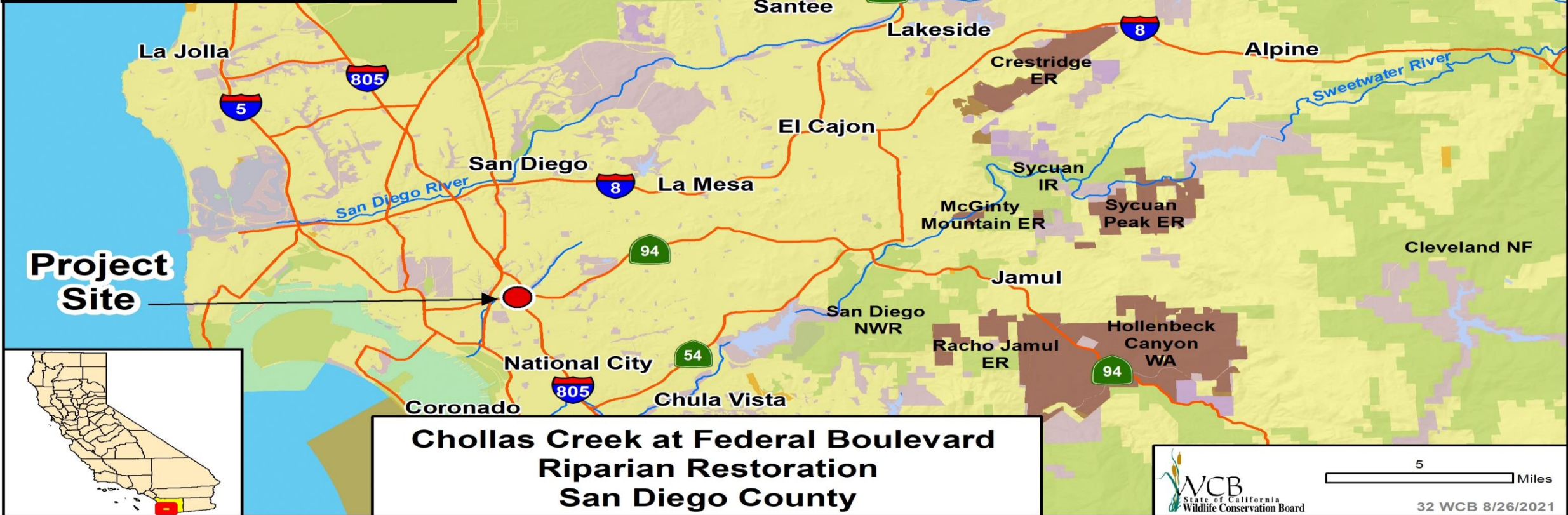


Coyotes entering culvert on east side of I-15





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



5 Miles



## 32. Chollas Creek at Federal Boulevard Riparian Restoration

### Slide 1

- Concrete lined segment of Chollas Creek that is dominated by invasive plants
- The hardened stream channel and loss of native riparian habitat has led to three significant issues:
  1. No habitat value
  2. Concrete does not allow water to infiltrate
    - Contributes to local stormwater quality issues
    - Does not withstand a 100-year flood event
  3. Separates neighborhoods from recreational amenities





# 32. Chollas Creek at Federal Boulevard Riparian Restoration

Slide 2



Chollas Creek at Federal Boulevard

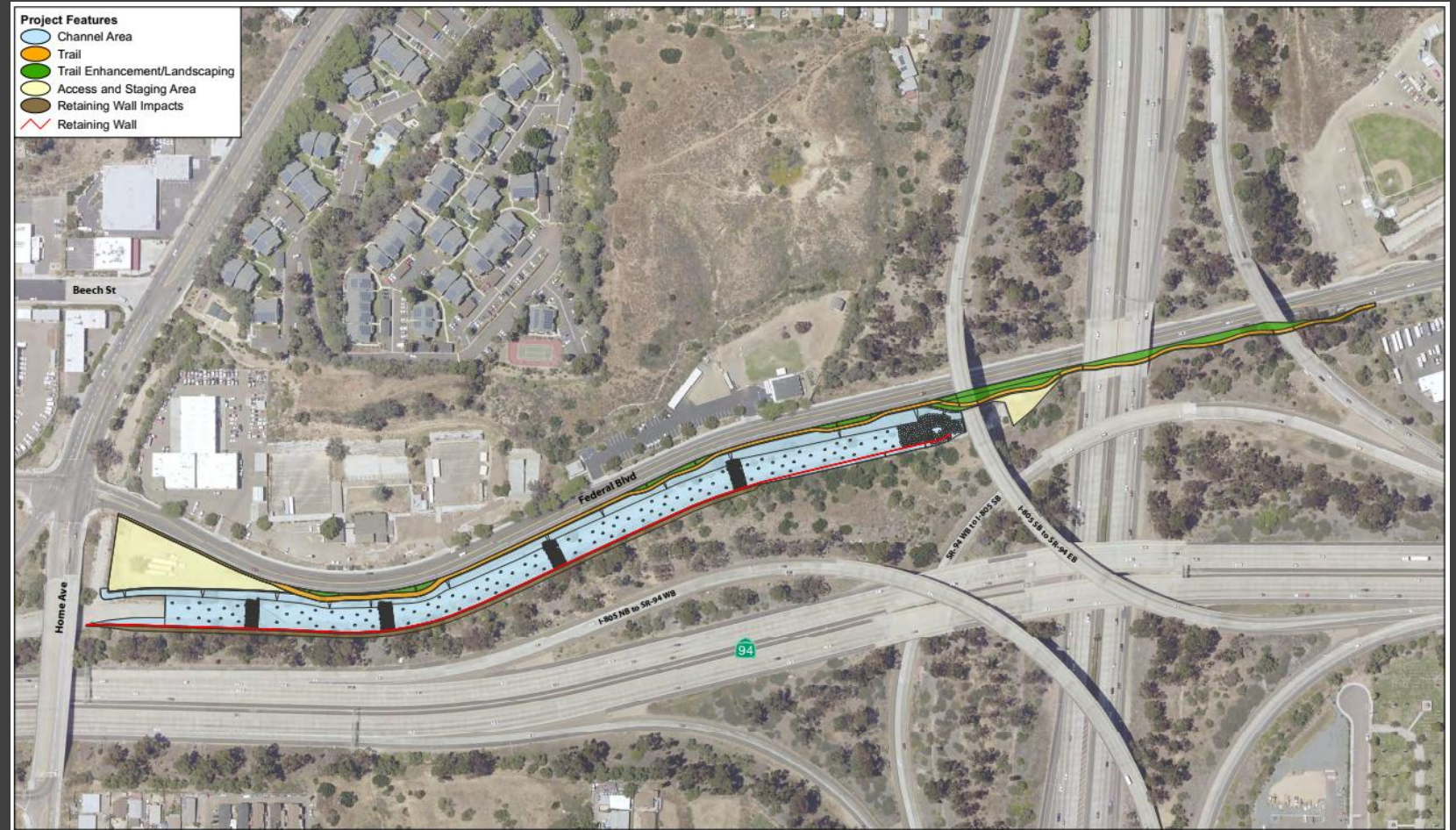


# 32. Chollas Creek at Federal Boulevard Riparian Restoration

Slide 3

## Project Elements

- Concrete channel will be removed
- Channel depth and width will be expanded
- Installation of a soft cobble-lined bottom
- Banks will be planted with native plants and tree species.
- Trail from Home Avenue to Sunshine Berardini Field



Project Site



## 32. Chollas Creek at Federal Boulevard Riparian Restoration

Slide 4

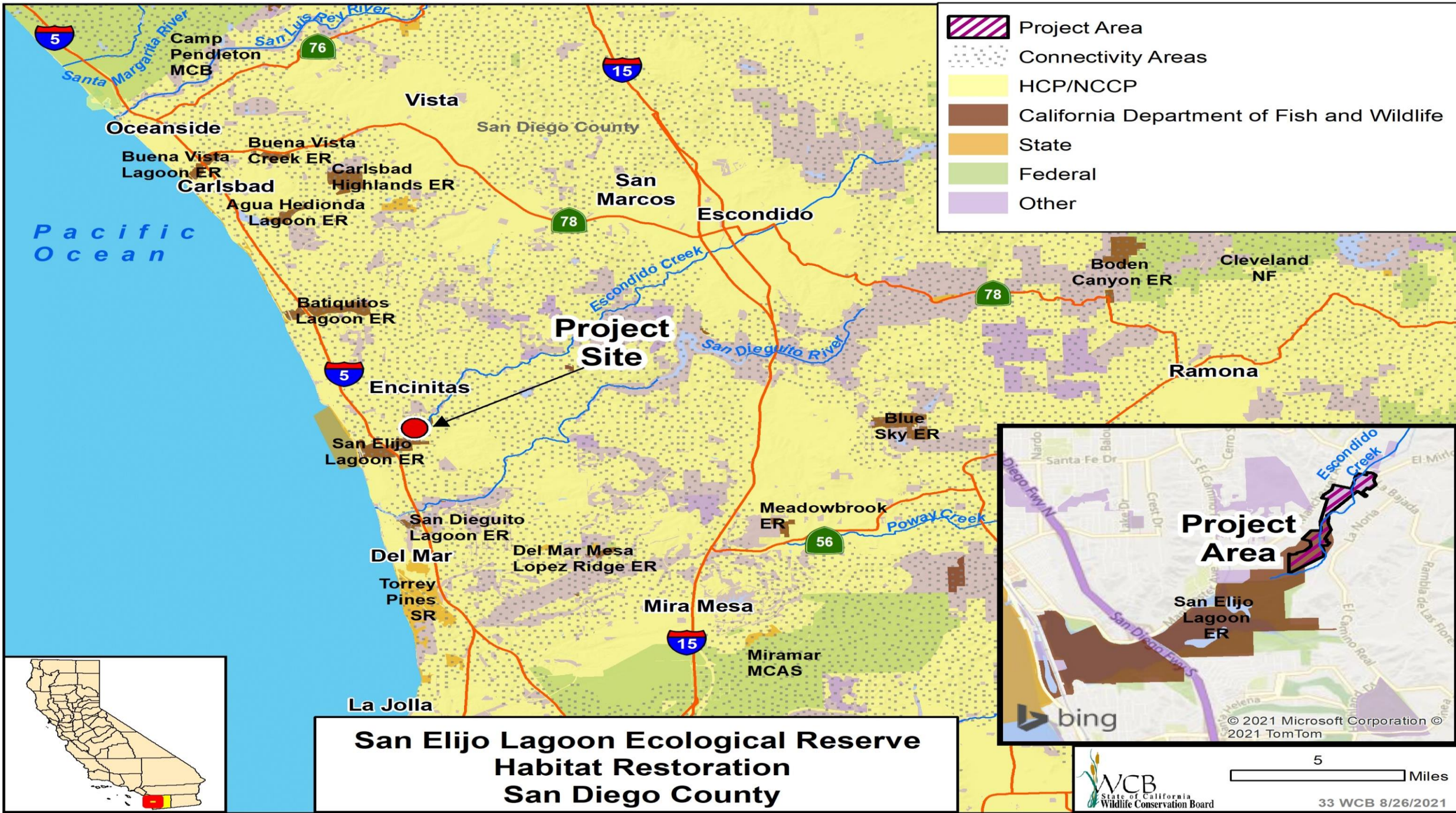
### Project Benefits

- 2,000 linear feet of riparian corridor varying from 65 to 90 feet in width
  - Existing concrete channel is about 40 feet wide
- Restoration of five acres of native riparian habitat
- Improvements to water quality and flood control
- 3,100 linear feet of native trees planted along the trail



Example of de-channelized stream in Southern California





**San Elijo Lagoon Ecological Reserve  
Habitat Restoration  
San Diego County**





# 33. San Elijo Lagoon Ecological Reserve Habitat Restoration

Slide 1

Mature Palm trees within the Project area.





# 33. San Elijo Lagoon Ecological Reserve Habitat Restoration

Slide 2

Eucalyptus trees within the Project area





## 33. San Elijo Lagoon Ecological Reserve Habitat Restoration

Slide 3

- Eucalyptus trees and non-native understory within riparian area





**33. San Elijo Lagoon  
Ecological Reserve  
Habitat Restoration**

Slide 4

Non-native iris among understory of  
non-native species





## 33. San Elijo Lagoon Ecological Reserve Habitat Restoration

Slide 5

Small group of Brown-headed Cowbird





**Proposed Items 22-33, excluding Item 29  
Motion**



Ervin Ranch





## Closed Session

Ervin Ranch





**Stay Safe and Healthy, Enjoy Your Day!  
Next Board Meeting November 18, 2021**