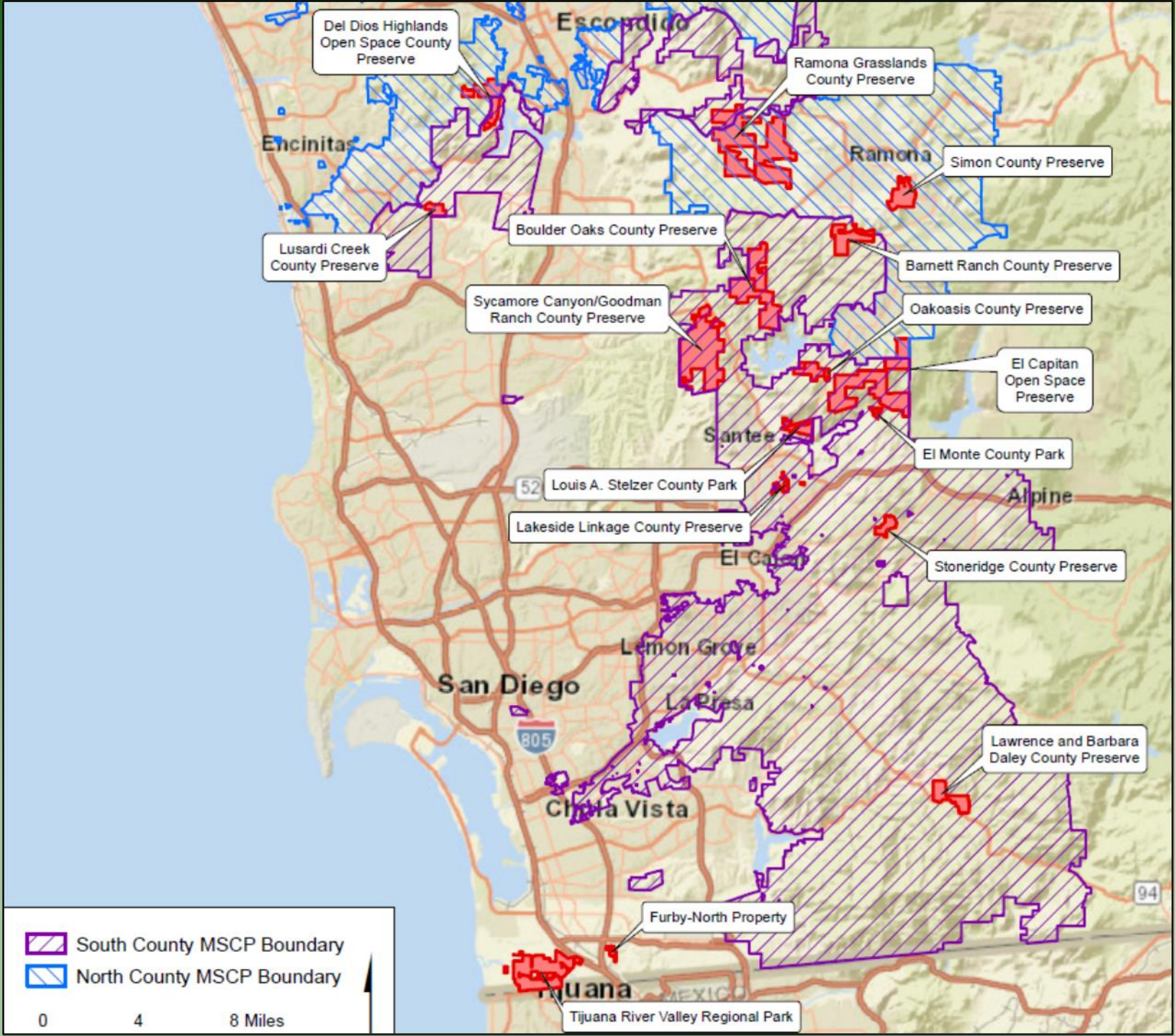


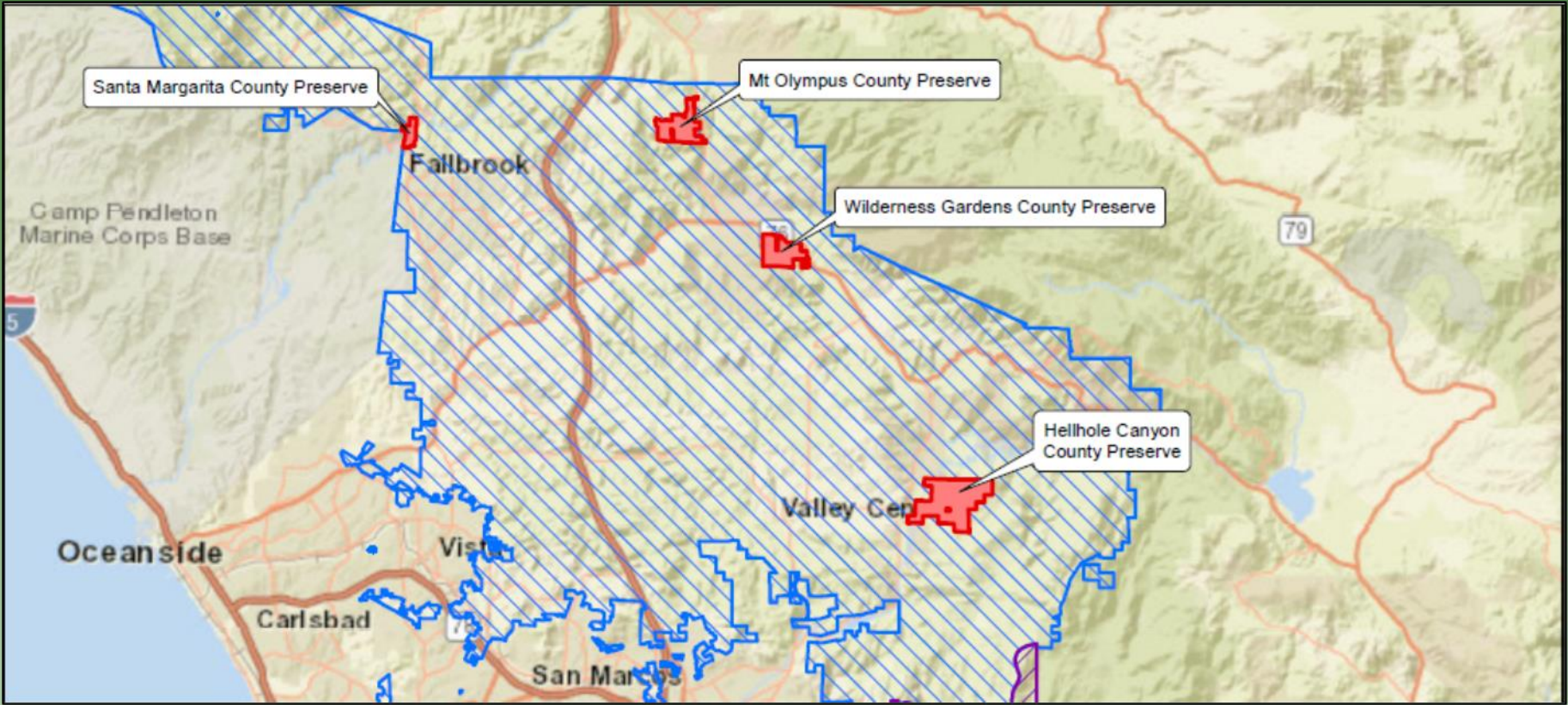
County of San Diego Department of Parks and Recreation Targeted Monitoring Plan

2021 Monitoring Highlights

Jennifer Price and Beth Principe







Vegetation Community Mapping

Furby-North Property

Stoneridge Preserve

Lawrence and Barbara Daley Preserve

Hellhole Canyon Preserve

Santa Margarita Preserve

Mt. Olympus Preserve

Wilderness Gardens Preserve

Simon Preserve



Target Species/Habitats

- San Diego thornmint
- Encinitas baccharis
- Lakeside ceanothus
- Variegated dudleya
- Willowy monardella
- San Miguel savory
- Otay tarplant
- Orcutt's bird's-beak
- Vernal pool/alkali playa
- San Diego fairy shrimp
- Harbison's dun skipper
- Arroyo toad
- Golden eagle
- Bald eagle
- Burrowing owl
- San Diego cactus wren
- Tricolored blackbird
- Northern harrier
- Least Bell's vireo
- Pallid bat
- Townsend's big-eared bat
- Stephens' kangaroo rat



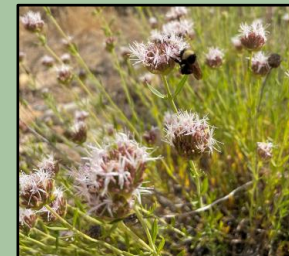
Rare Plant Monitoring

- San Diego thornmint – Sycamore Canyon/Goodan Ranch and Simon Preserve
- Encinitas baccharis – Del Dios Highlands Preserve
- Lakeside ceanothus – Boulder Oaks, El Capitan, and Oakoasis Preserves, and Louis A. Stelzer Park
- Variegated dudleya – Sycamore Canyon/Goodan Ranch and Lusardi Creek Preserves



Rare Plant Monitoring cont.

- Willowy monardella – Sycamore Canyon/Goodan Ranch Preserve
- San Miguel savory – Boulder Oaks Preserve
- Otay tarplant – Furby-North Property
- Orcutt's bird's-beak – Tijuana River Valley Regional Park



Animal Monitoring

- Arroyo toad
- Stephens' kangaroo rat
- Burrowing owl
- Golden eagle
- Bald eagle
- Northern harrier
- Least Bell's vireo
- Pallid Bat
- Townsend's big-eared bat
- Harbison's dun skipper

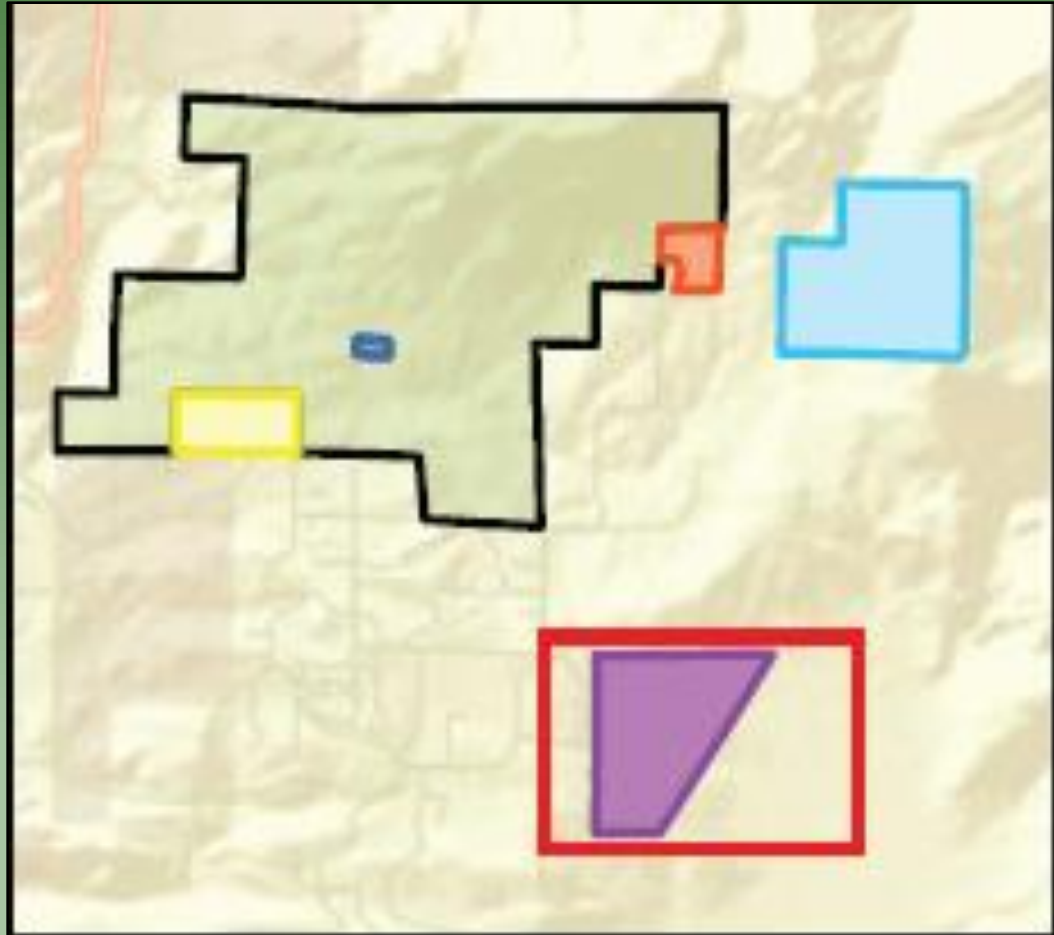


Arroyo Toad, Burrowing Owl, and Stephens' Kangaroo Rat

- Arroyo toad – Ramona Grasslands and Santa Margarita Preserves
- Burrowing owl – Hellhole Canyon Preserve
- Stephens' kangaroo rat – Ramona Grasslands and Hellhole Canyon Preserves



Stephens' Kangaroo Rat



Golden and Bald Eagles

- Ramona Grasslands Preserve consistently supports one breeding pair of golden eagles for foraging
- Off-site nest located in Bandy Canyon was observed as active during 2020/2021 surveys and successfully fledged one chick
- Newly established adult pair of bald eagles occupying the Preserve in 2020
- Barnett Ranch Preserve is not currently used regularly by golden eagles for foraging



Northern Harrier and Least Bell's Vireo

Northern harrier

- Five nesting territories identified within Tijuana River Valley Regional Park
- Two nests successfully fledged chicks



Least Bell's vireo

- Tijuana River Valley Regional Park, 178 territories, 101 pairs and 77 single males (a large portion of which were likely paired)
- Santa Margarita Preserve, 11 territories and 5 pairs



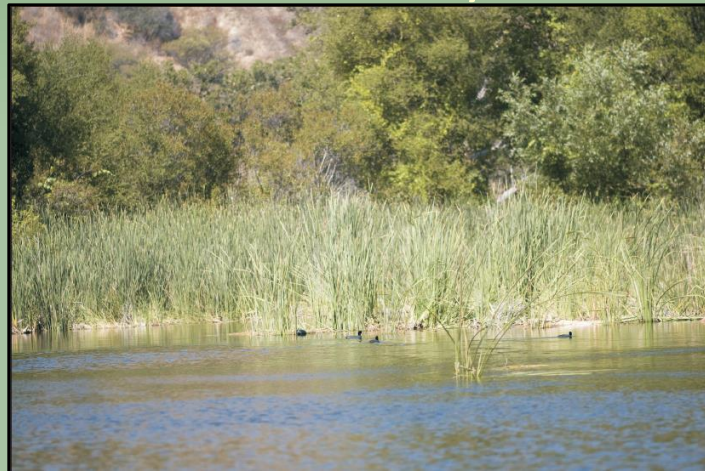
Pallid and Townsend's Big-Eared Bats

Pallid bat

- Foraging echolocation calls possibly recorded at Mt. Olympus, Wilderness Gardens, and Hellhole Canyon Preserves
- No detections of roosting bats on these three preserves

Townsend's big-eared bat

- Presence confirmed at Wilderness Gardens and Mt. Olympus Preserves but not at Hellhole Canyon Preserve



Harbison's Dun Skipper

Hellhole Canyon Preserve

- Approximately 2,638 San Diego sedge plants were observed within Hell Creek and its southern tributary during host plant mapping in 2021
- 2 adult HDS were observed nectaring and mating on non-native annual yellow sweetclover and 1 HDS individual was later observed moving on to nectar on invasive non-native shortpod mustard



Friendly Reminder

Non-profit Partners

- Please submit the acreage(s) and APNs acquired in Calendar Year 2021 in the South County MSCP Subarea to County DPR by December 15, 2021
- Eira.Whitty@sdcounty.ca.gov



Thank You

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