



**DUDEK**



Poinsettia Station Vernal Pool Preserve and  
Manzanita Partners Preserve  
Dudek/Habitat Restoration Sciences Inc. (HRS)

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# Overview

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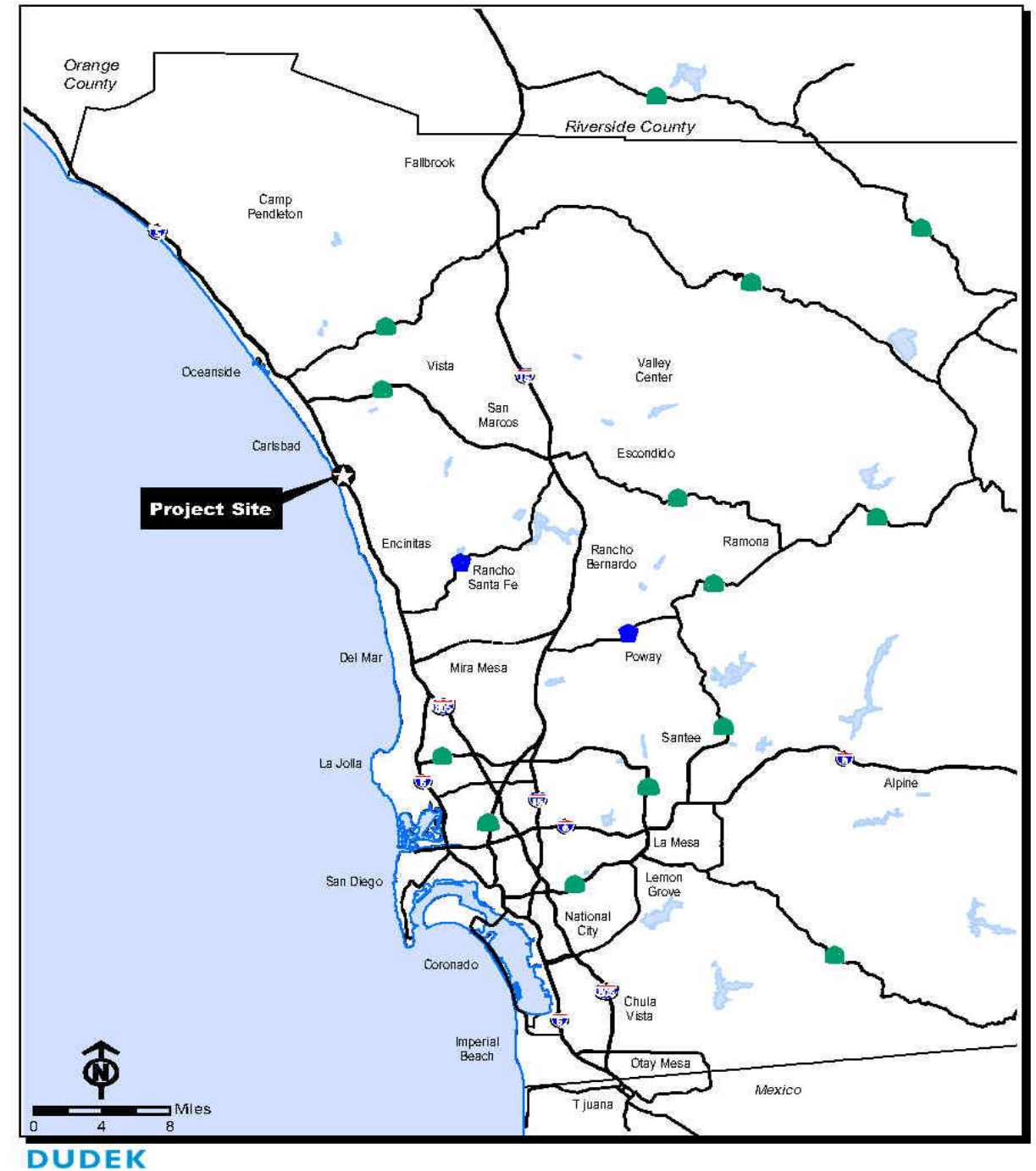
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# Introduction

Poinsettia Preserve Background

# Poinsettia Preserve Background

- 11.7 acres
- Adjacent to Carlsbad Poinsettia Train Station
- Easement through Preserve include gas line, sewer line, and NCTD access
- 2018 SANDAG Potholing and Restoration Project
- HRS/Dudek providing habitat management services



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# Special Status Species

# Sensitive Plant Species

- San Diego button celery (*Eryngium aristulatum* var. *parishii*) - FE
- Spreading navarretia (*Navarretia fossalis*) - FT
- California Orcutt's grass (*Orcuttia californica*) - FE
- Orcutt's brodiaea (*Brodiaea orcuttii*) – HCP Covered



# Sensitive Wildlife Species

- San Diego fairy shrimp (*Branchinecta sandiegonensis*) - FE
- Riverside fairy shrimp (*Streptocephalus woottoni*) - FE
- Coastal California gnatcatcher (*Polioptila californica*) - FT



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# Restoration and Management Activities



# Restoration of 2018 SANDAG Potholing


- Potholing for fiber optic line under SDGE gas line
- Careful soil removal and replacement
- Reseeding of potholing locations (approximately 20 square feet total)
- SANDAG funding provided to City of Carlsbad to conduct additional restoration and monitoring



# Management and Monitoring 2019-present

- Monitoring of potholing
- Monitoring of preserve habitats and species
- Vegetation management by HRS
- Pothole locations successfully restored
- Increase in sensitive vernal pool species like spreading navarretia
- Spreading navarretia increase in plants from 50 to 500 individuals





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# Manzanita Partners Preserve Information

# Manzanita Partners Preserve Background

- 32.09 acres
- Established in 2003
- Owned by Manzanita Partners LLC
- ConAM Management Corporation
- HRS/Dudek providing habitat management services



# Manzanita Resources

- 14 vernal pools
- 18 vegetation communities and land covers
- Sensitive Plants:
  - Eastwood manzanita, San Diego button celery, wart-stemmed ceanothus, summer holly and ashy spike-moss
- Sensitive Wildlife:
  - San Diego Fairy Shrimp
  - Coastal California gnatcatcher
  - San Clemente loggerhead shrike





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# Summary of Management Activities at Manzanita Partners Preserve

Annual Maintenance and Monitoring

# Key Management Activities

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- Post fire monitoring (2015-2019)
- Vernal pool monitoring
- California gnatcatcher monitoring 2022
- Rare plant monitoring 2022
- Vegetation assessments
- Weed control
- Trash removal
- Trespassing/vandalism maintenance





THANK YOU FOR  
YOUR TIME