



Control of Invasive Plants through Biological Mitigation for Transportation Projects In San Diego

Bruce April, Chief
Environmental Stewardship Branch
Caltrans, District 11

Regulatory Agencies:

Federal

- U.S. Fish and Wildlife Service
- U.S. Army Corps of Engineers
- U.S. Environmental Protection Agency
- National Marine Fisheries Service



State

- California Coastal Commission
- California Department of Fish and Game
- California Regional Water Quality Control Board



**CALTRANS – DISTRICT 11
BIOLOGICAL MITIGATION SITES
SAN DIEGO & IMPERIAL COUNTIES**

TOTAL NUMBER OF SITES - 51

TOTAL ACREAGE – 5,281

TOTAL COST – \$125,952,720

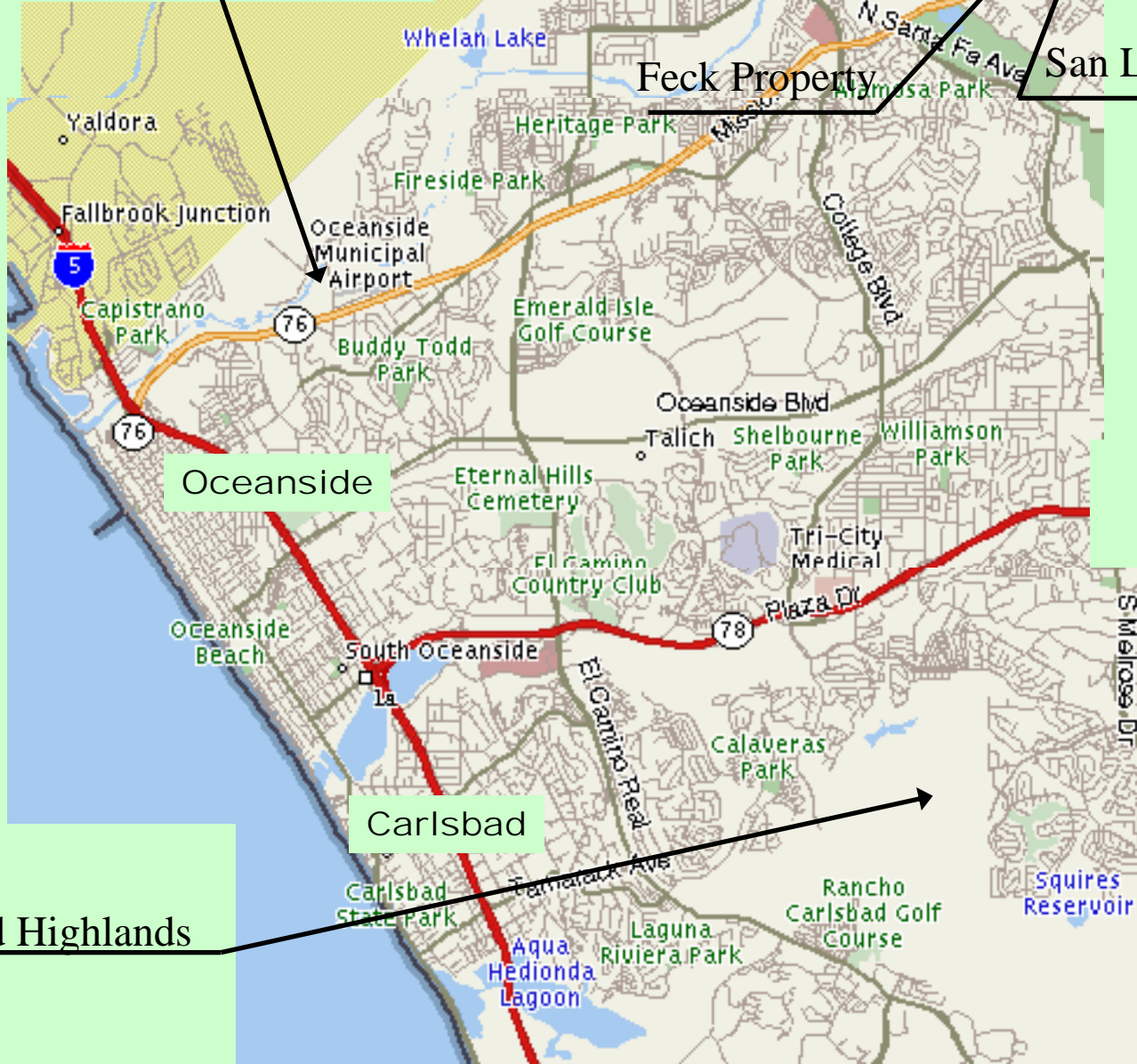
Pilgrim Creek Mitigation Bank

Bonsall Bridge Site

West Airport

Feck Property

San Luis Rey (Marron)



Oceanside

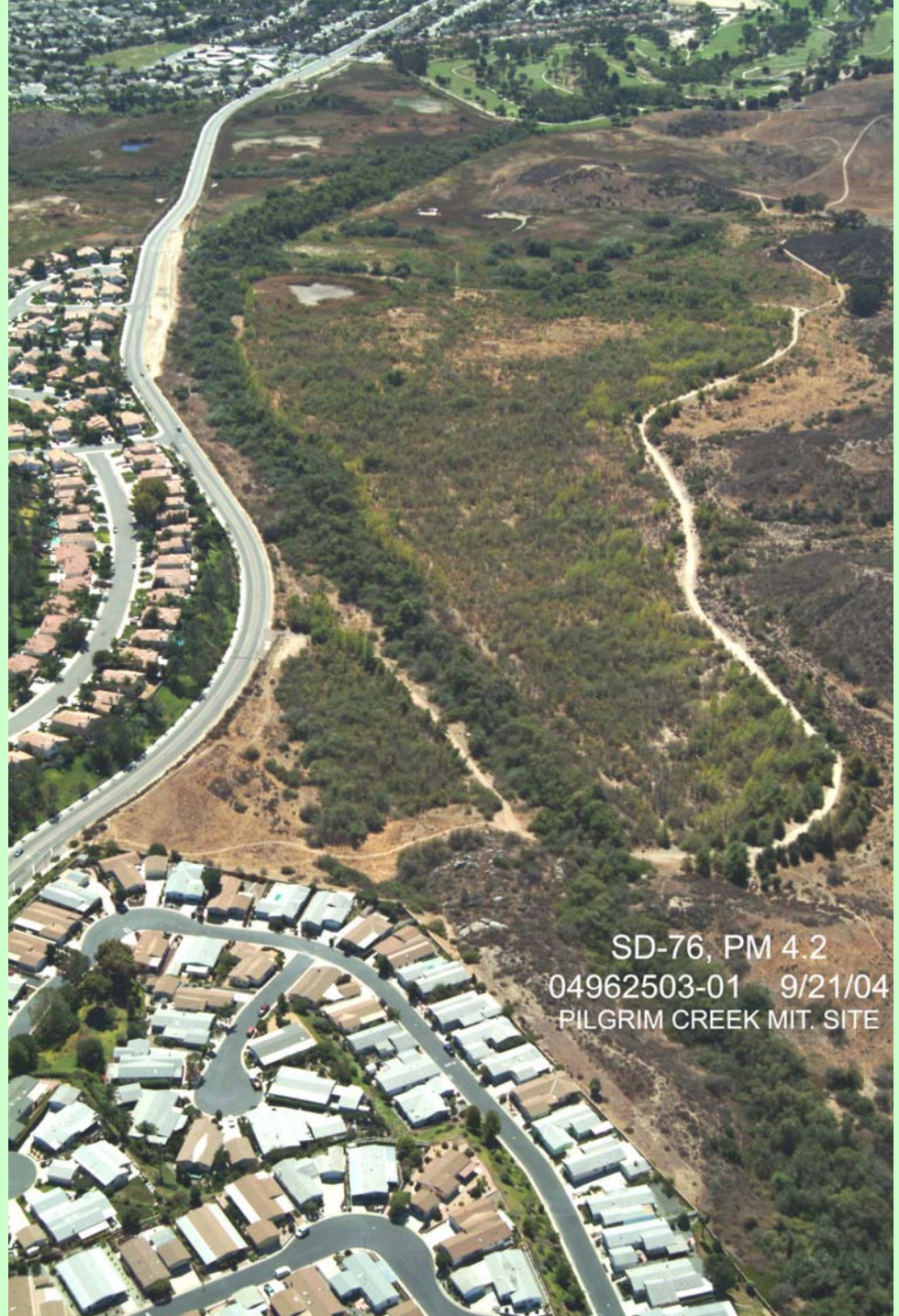
Carlsbad

Carlsbad Highlands

Pilgrim Creek Mitigation Bank
Year 6

Existing Condition –
fallow agricultural field with
fennel and mustard

121 acres of:
Willow Riparian Woodland,
Coastal Sage Scrub, Native
Grassland, Oak-Sycamore
Woodland, Least Bell's Vireo,
California Gnatcatcher, San
Diego Ambrosia



Pilgrim Creek Mitigation Bank



San Luis Rey (Marrron)



Krutoff/Meadowbrook (Poway)

Blue Sky Ranch

San Dieguito River

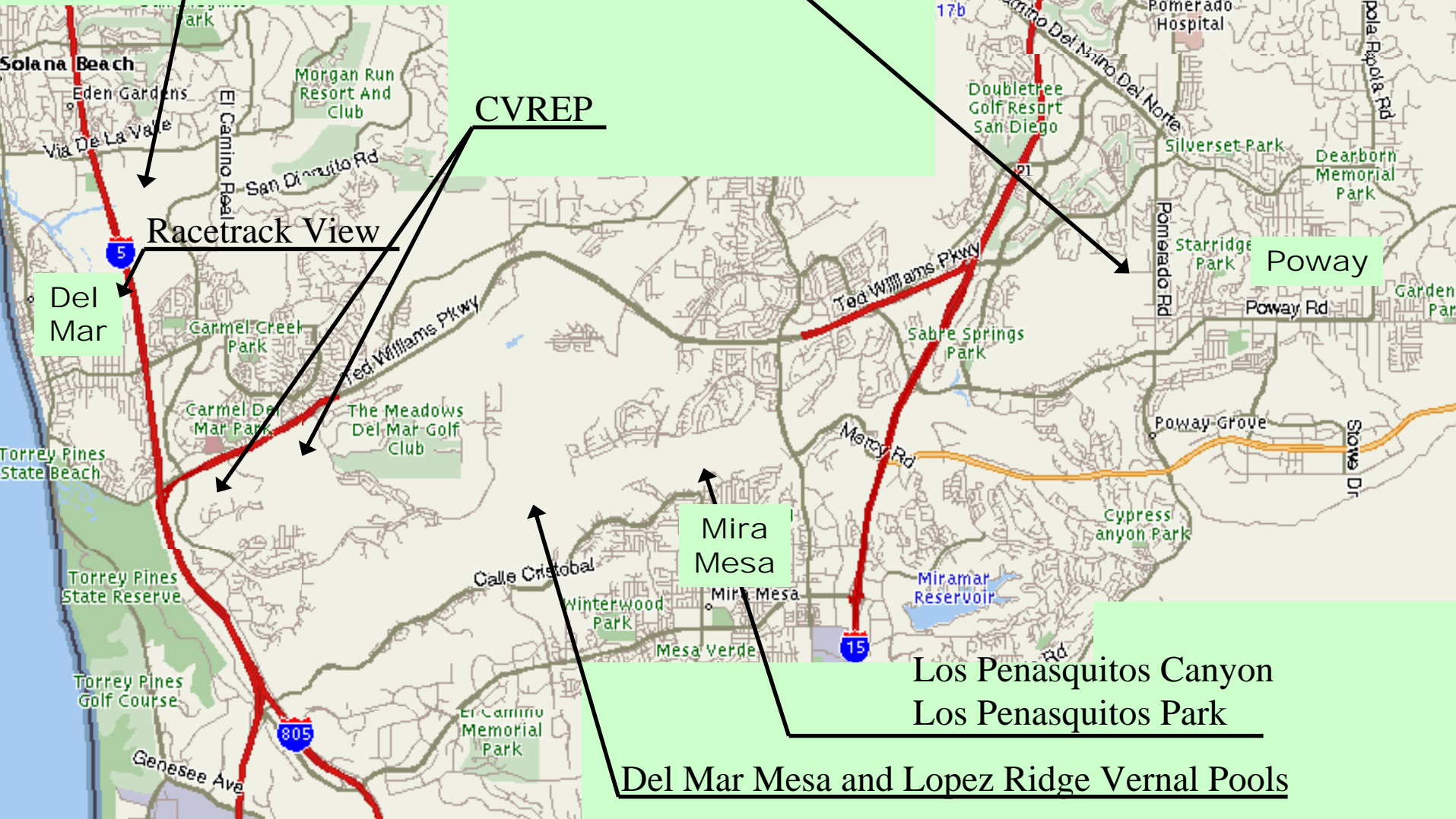
CVREP

Racetrack View

Mira Mesa

Los Peñasquitos Canyon
Los Peñasquitos Park

Del Mar Mesa and Lopez Ridge Vernal Pools

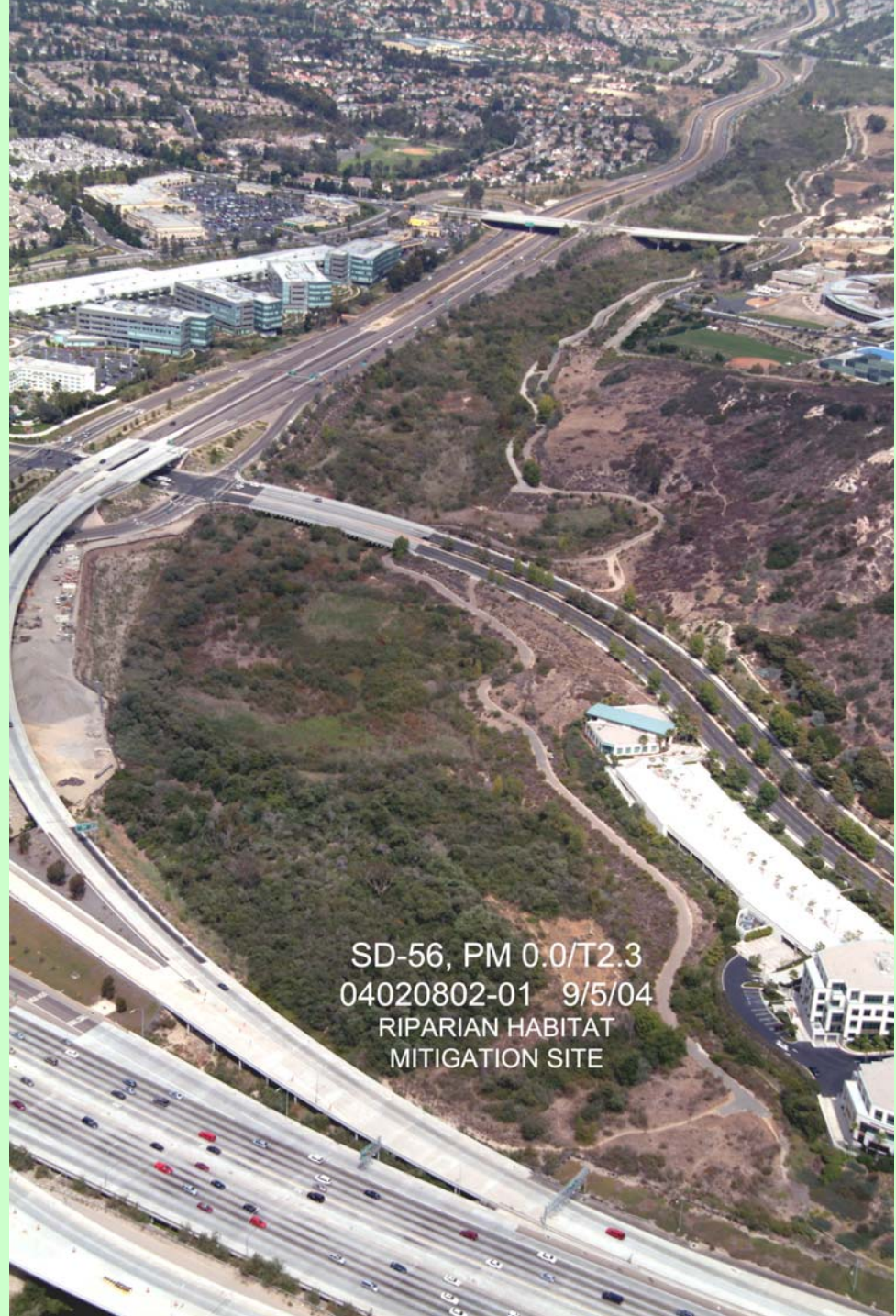


Del Mar Mesa & Lopez Ridge Vernal Pools – 90 areas



**SR-56 – Carmel Valley Restoration and
Enhancement Project (CEVREP)**

**104 acres of:
Willow Riparian Woodland,
Freshwater Marsh**



SD-56, PM 0.0/T2.3
04020802-01 9/5/04
RIPARIAN HABITAT
MITIGATION SITE

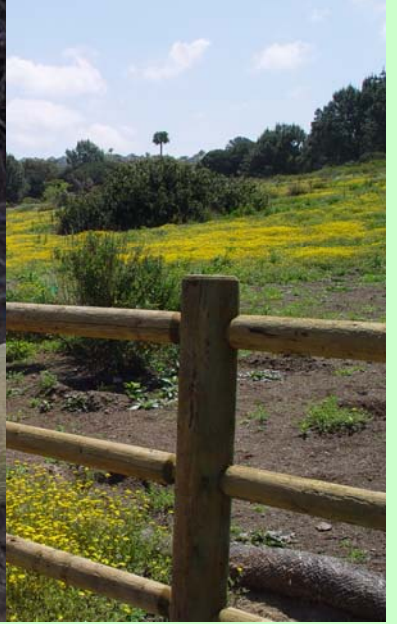
SR-56 – Carmel Valley Restoration and Enhancement Project (CEVREP)

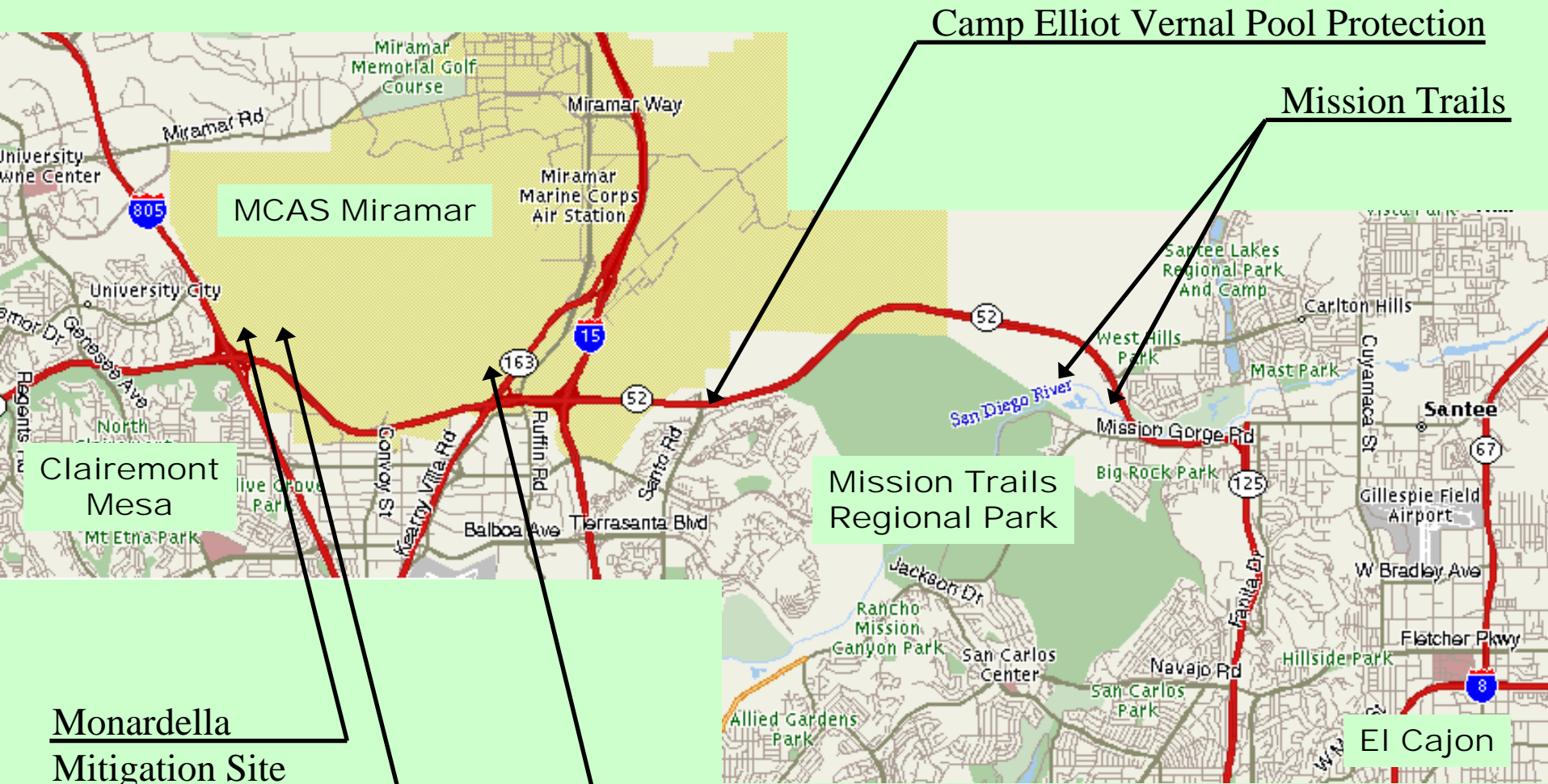


Racetrack View – San Dieguito Lagoon



Racetrack View – San Dieguito Lagoon





Camp Elliot Vernal Pool Protection

Mission Trails

MCAS Miramar

Clairemont
Mesa

Mission Trails
Regional Park

El Cajon

Monardella
Mitigation Site
San Clemente Canyon
Tree Mitigation

Kearny Villa Road
Mitigation Site



Mast Blvd

Mission
Gorge Rd

Rte 52

Mission Trails Regional Park

Lake Jennings



Lake Jennings

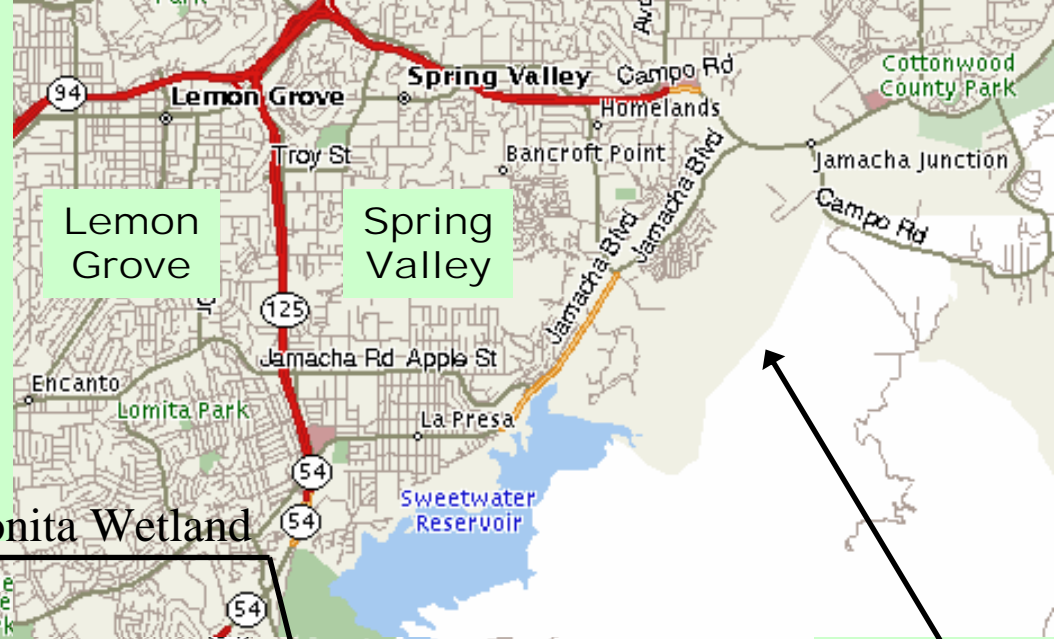
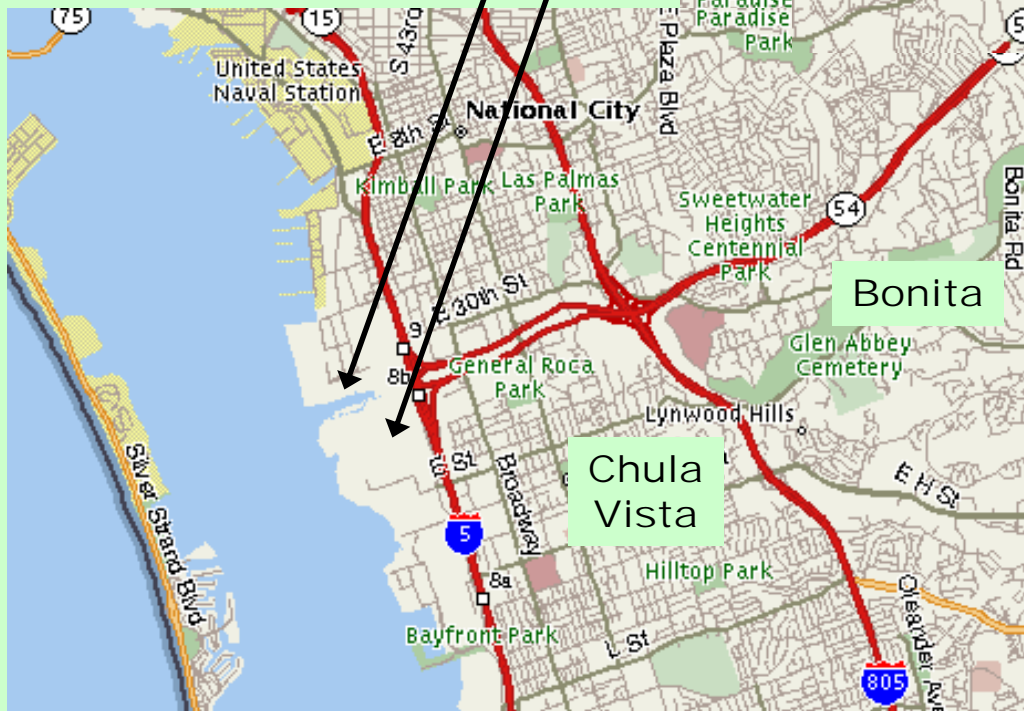


Forester Creek



Paradise Creek Salt Marsh

I-5/SR-54 Salt Marsh



Bonita Wetland

Rancho San Diego Mitigation Bank

Bonita Meadows



Proctor Valley Road

Bonita Meadows

Bonita Meadows



I-5/SR-54 Sweetwater Marsh

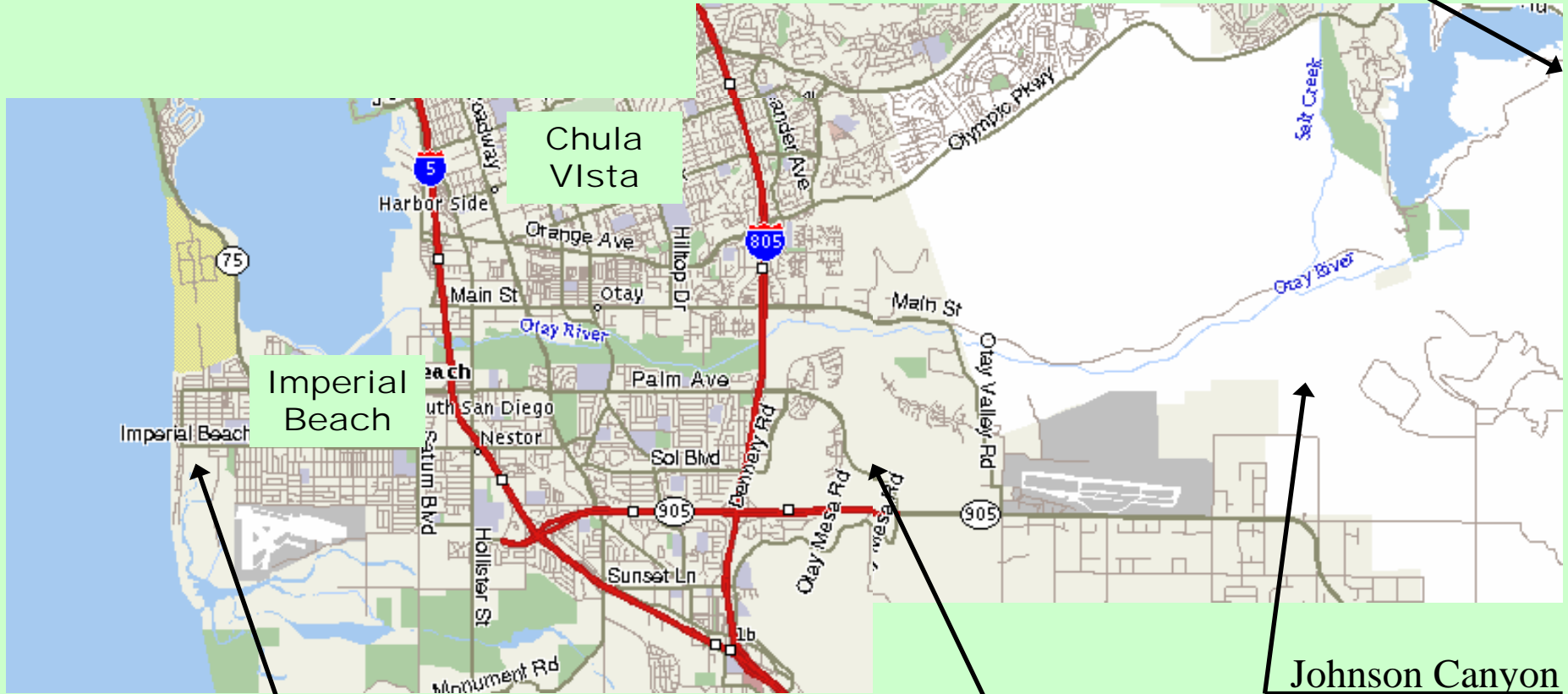




Bonita Wetland



San Ysidro Mountains



Johnson Canyon

Dennery Canyon

Tijuana Estuary

Imperial Beach

Chula Vista

San Ysidro Mountains



San Ysidro Mountains



Johnson Canyon/SR125 South – Vernal Pool & Quino Checkerspot Butterfly Preserve



Johnson Canyon/SR125 South –
Vernal Pool & Quino Checkerspot Butterfly Preserve



Johnson Canyon/SR125 South - Vernal Pool & Quino Checkerspot Butterfly Preserve



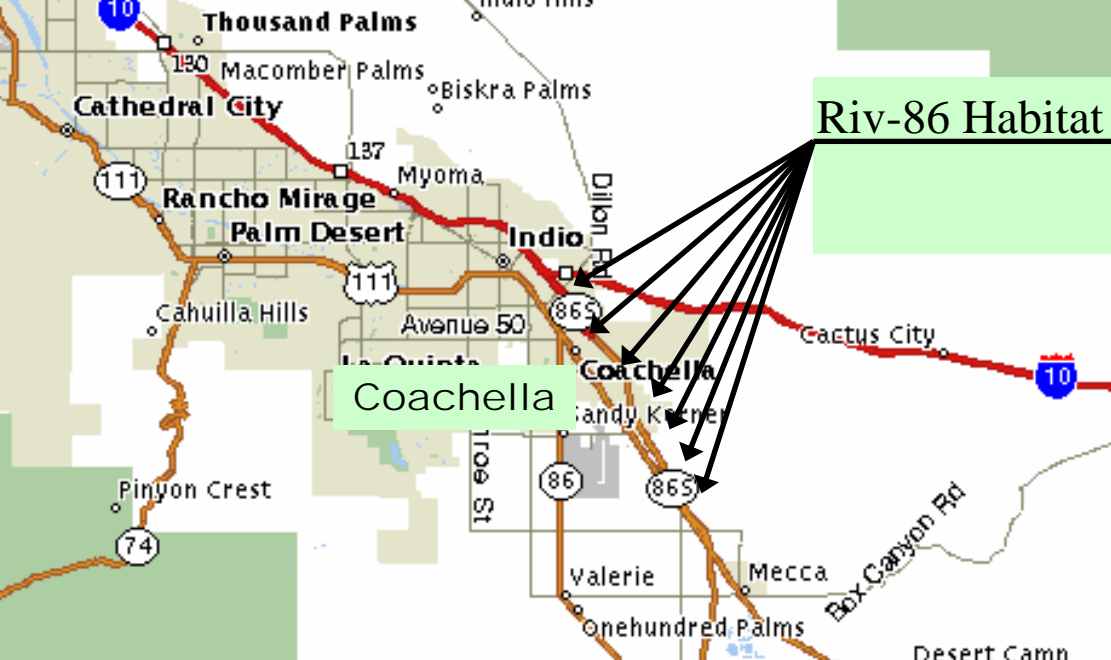


Dennery Canyon West



Denner Canyon West

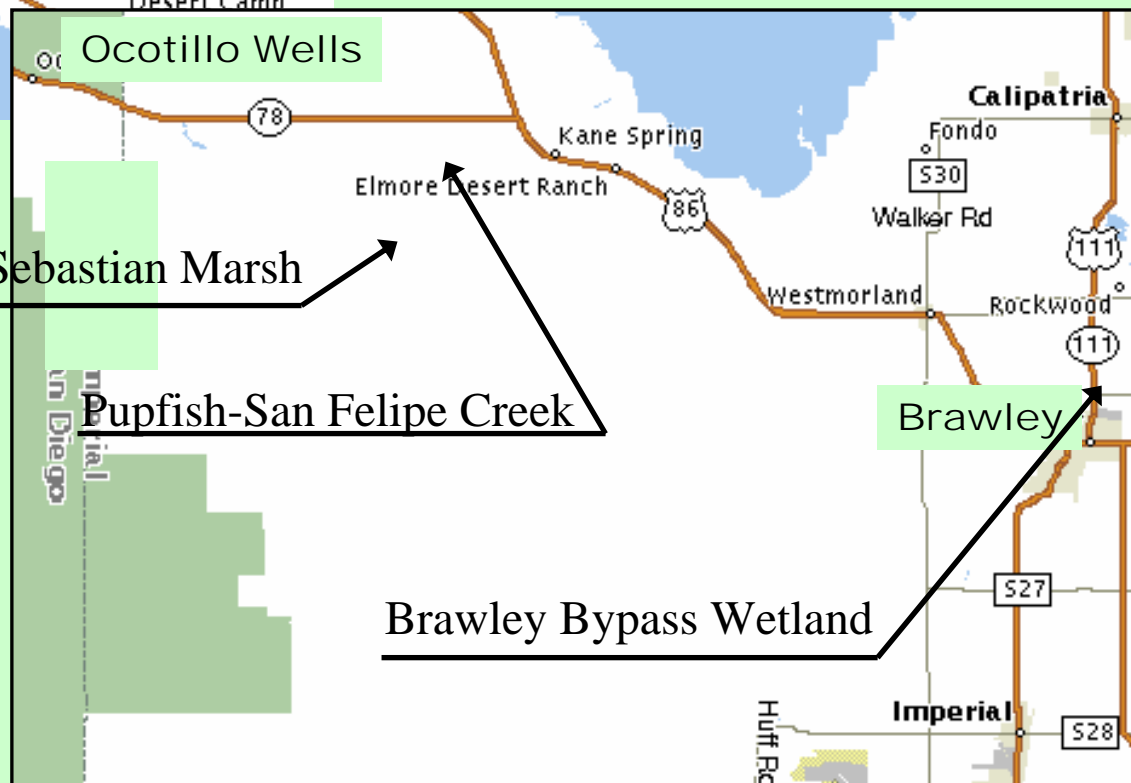




Riv-86 Habitat Areas

Coachella

11



Ocotillo Wells

San Sebastian Marsh

Pupfish-San Felipe Creek

Brawley Bypass Wetland

Brawley

Riverside SR-86



Transferred Mitigation Properties

California Department of Fish and Game

<u>SITE</u>	<u>ACRES</u>
1. Krutoff	150
2. Carlsbad Highlands	83
3. Bonsall, SLR	11
4. Rancho Montana	120
5. Pilgrim Creek Mit. Bk	120
6. San Diego River	33
7. Blue Sky Ranch	50
8. Lake Hodges	12
9. Rutherford Ranch	39
10. Vernal Pool DM/Lop	<u>90</u>
Total	708 ac.
	Endowment \$4,800,000

U.S. Fish and Wildlife Service

<u>SITE</u>	<u>ACRES</u>
1. Tijuana Estuary	1.25 ac.
	Endowment \$0

San Dieguito River Park JPA

1. Bernardo Mountain	81 ac.
	Endowment \$202,345

TOTALS to DATE

ACREAGE

5,282

COST

\$125,952,750

TRANSNET

ENVIRONMENTAL MITIGATION PROGRAM

ACREAGE

?????

COST

\$850,000,000

TransNet Sales Tax Extension

ENVIRONMENTAL MITIGATION PROGRAM

Major Highway Transit Project Mitigation	\$ 450,000,000
<u>Local Project Mitigation</u>	<u>\$200,000,000</u>
Total Direct Mitigation	\$650,000,000
<u>Economic Benefit</u>	<u>\$ 200,000,000</u>
Total Environmental Mitigation Program	\$ 850,000,000

