



Habitat Managers
Kathleen Pollett, Vince Rivas
and Jim Rocks



Don Scoles, Executive Director

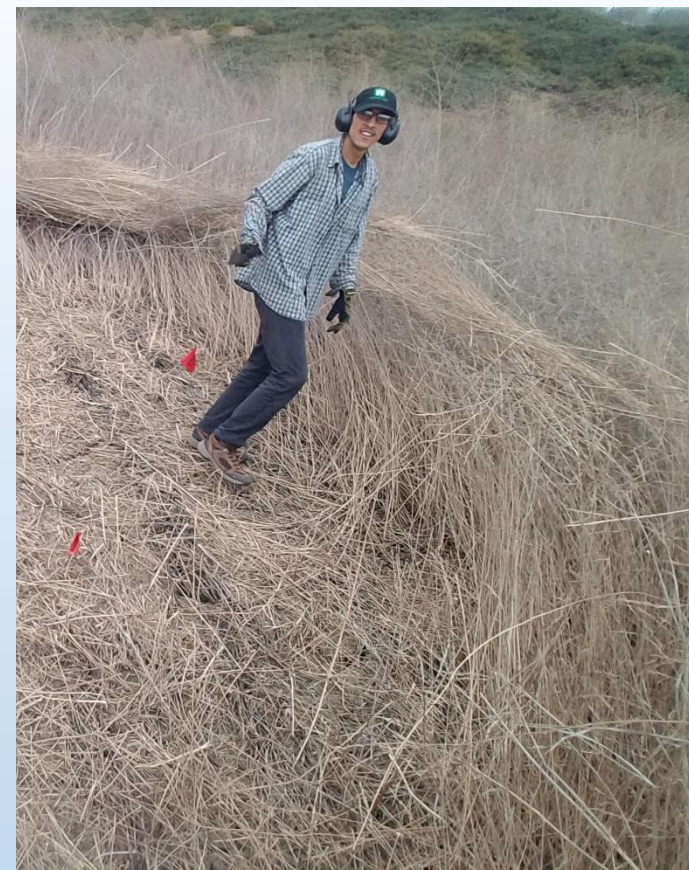
Outstanding New Employee (April 2020)

Vince Rivas

Most recently from a consulting firm with SDHC as Client

SDHC 2015 Volunteer of the Year

BA Environmental Studies with Emphasis in Biology



Interns

- John Nicolopoulos



Interns

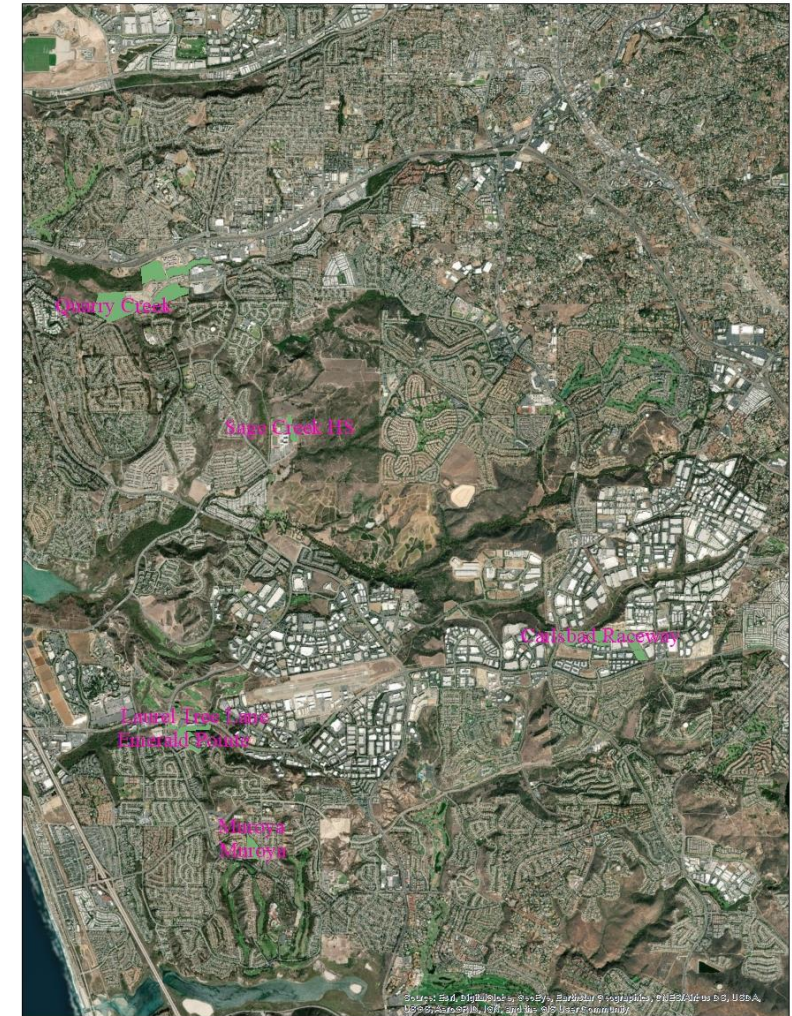
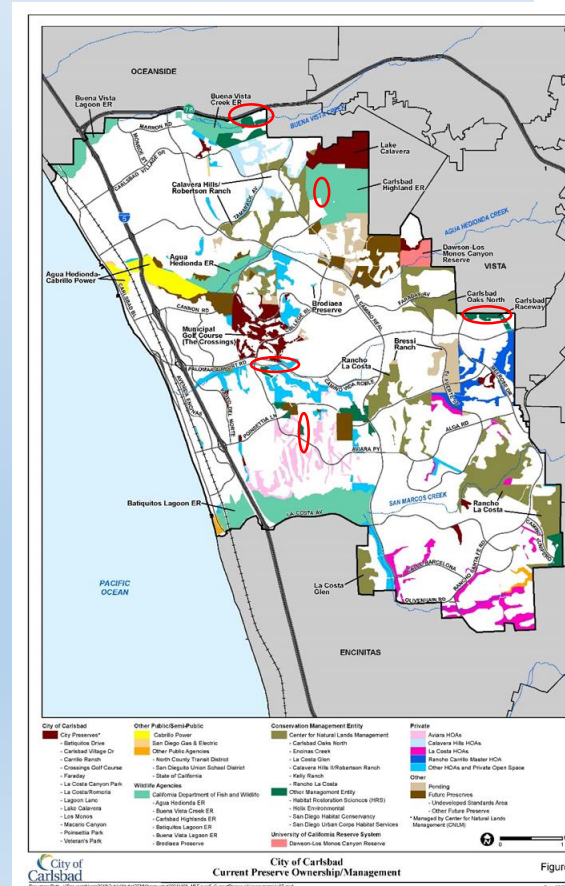
- Jackie Koch
- Eric Hung
- Marcus Li



Carlsbad Preserves

- Carlsbad Raceway (46.25 acres)
- Emerald Point (10.1 acres)
- Laurel Tree (8 acres)
- Muroya (8.5 acres)
- Quarry Creek (95.94 acres)
- Sage Creek (6.2 acres)

Carlsbad Preserves San Diego Habitat Conservancy



Legend

- Carlsbad Preserves

8,700 4,350 0 8,700 Feet



Carlsbad Raceway

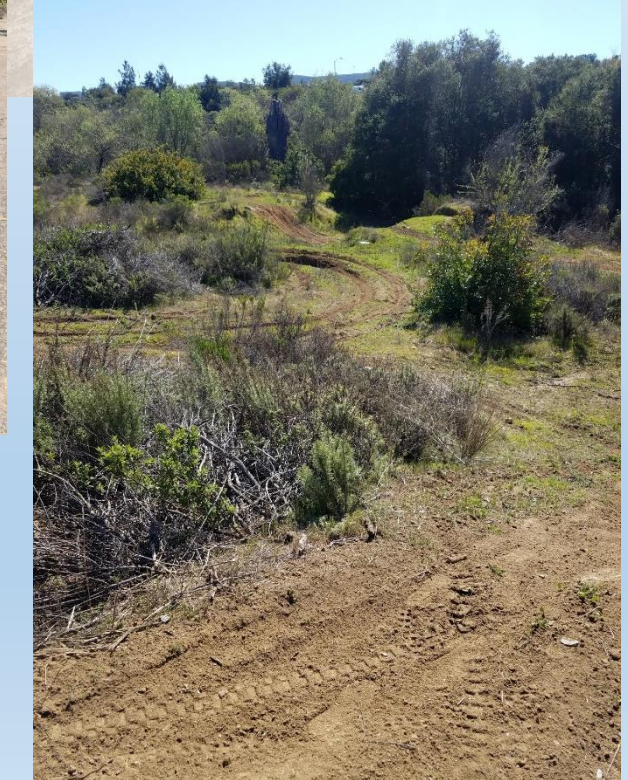
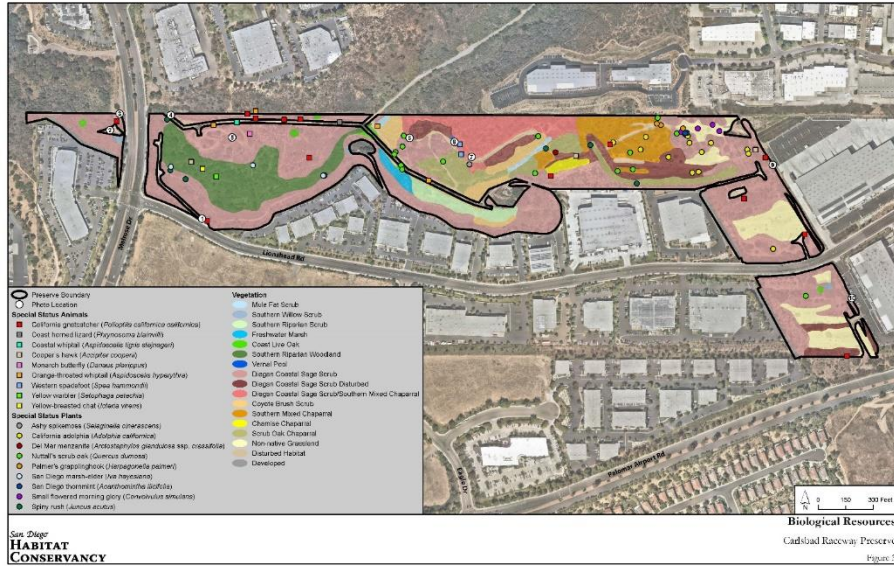


San Diego
**HABITAT
CONSERVANCY**

Biological Resources
Carlsbad Raceway Preserve
Figure 3



Carlsbad Raceway



Carlsbad Raceway Volunteer Events

I love a Clean San Diego!!
Approximately 30 people



Vince Rivas- SDHC
John Nicolopoulos, Jackie Koch -interns SDHC
September 2019

Prana Business weeding event!
7 people



April 2019



Carlsbad Raceway

Truck loads of trash removed September 2019 and in February 2020 still relatively clean



Polyphagous Shot Hole Borer (*Euwallacea* sp.)

2 rounds of traps

Both had Quercivorol as beetle pheromone lure with liquid at base where insects would fall.

Placed 4 at Carlsbad Raceway, 4 at Quarry Creek, 4 at Laurel Tree

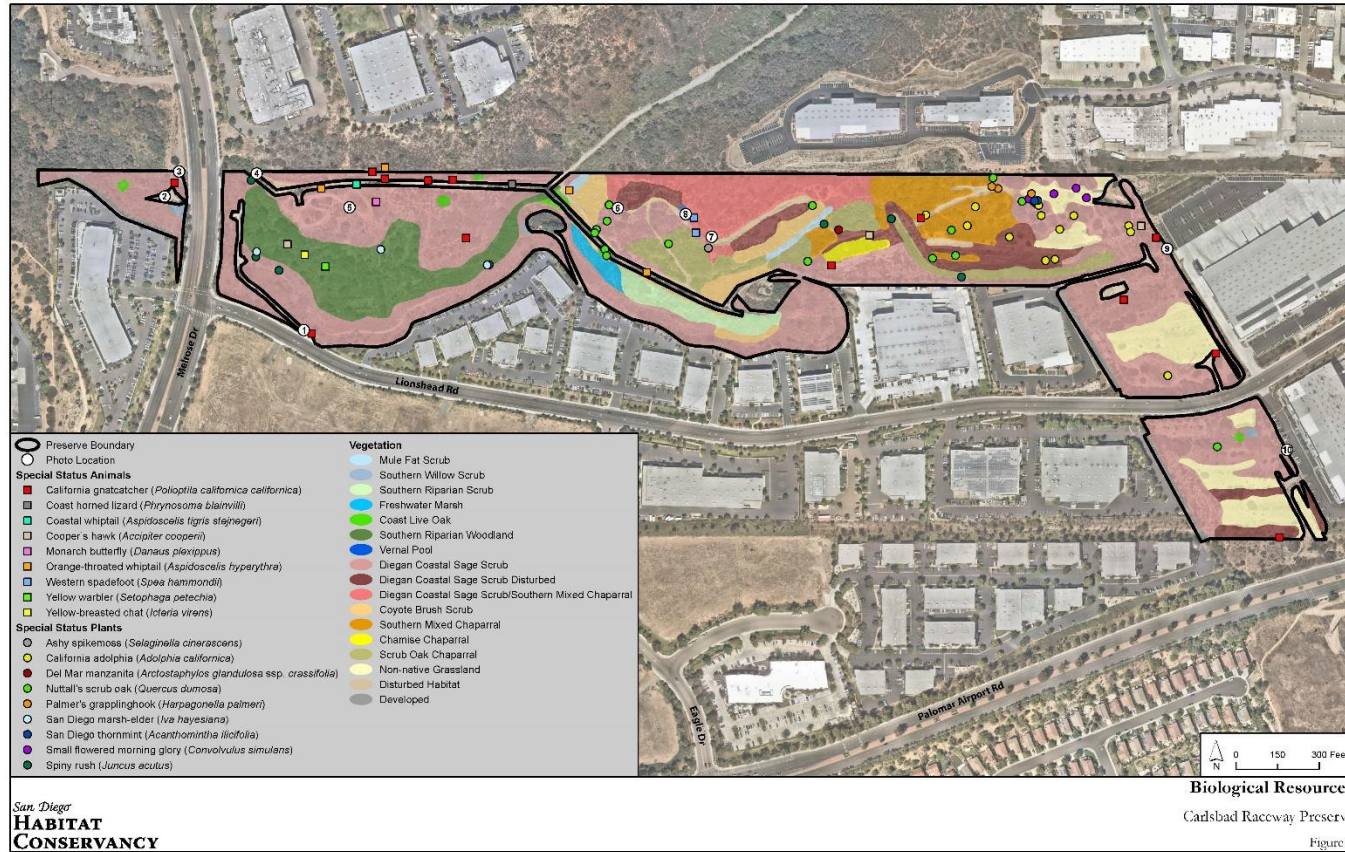


Method 1, Modified trap with small hole. Only ants were found.



Method 2, Second round with larger hole. Flies, beetles, and a few spiders.

Carlsbad Raceway



3 traps recovered from second method (one destroyed).
Negative for Shot hole borer!

Carlsbad Raceway

Acanthomintha ilicifolia,

San Diego Thornmint

- 2019 -5 Individuals found
- Extensive hand weeding of tecolote
- 2020 species not detected to date
- Attended San Diego thornmint workshop and formed the North County Working Group (CNLM, SDHC, City of Carlsbad)
- Met in field with North County Working Group
- Proposing soil samples, future seeding hopefully from our sites
- Potentially seed new area with seed from other location



Emerald Pointe

- San Diego thornmint
 - 22 Individuals found in 2019
 - None detected 2020 to date
 - Attended San Diego thornmint workshop and formed the North County Working Group (CNLM, SDHC, City of Carlsbad)
 - Met in field with North County Working Group
 - Proposing soil samples, future seeding hopefully from our sites
 - Potentially seed new area with seed from other location



Emerald Pointe



Disturbed area dominated by *Brassica nigra* estimates on deep seed to live 50 years.

In an effort to seek alternatives to herbicides we tried an outdoor vacuum (seed sucker) to see if seed germination would be lower over time.

Vacuumed plots 11-19-19

Data for number of individuals germinating 2-21-20

Emerald Pointe



Analysis of Variance						
Source	Type III SS	d f	Mean Squares	F-ratio	p-value	% variance
Treat	2787.556	1	2787.556	0.655	0.464	<0.01
Plot(Treat)	17024.3	4	4256.074	1.054	0.454	0.04
Quad(Plot(Treat))	24236.22	6	4039.37	4.975	0.036	0.54
Error	4871.926	6	811.988			0.41

Timed hand weeding after data collection
 Monitor in fall and spring 2021

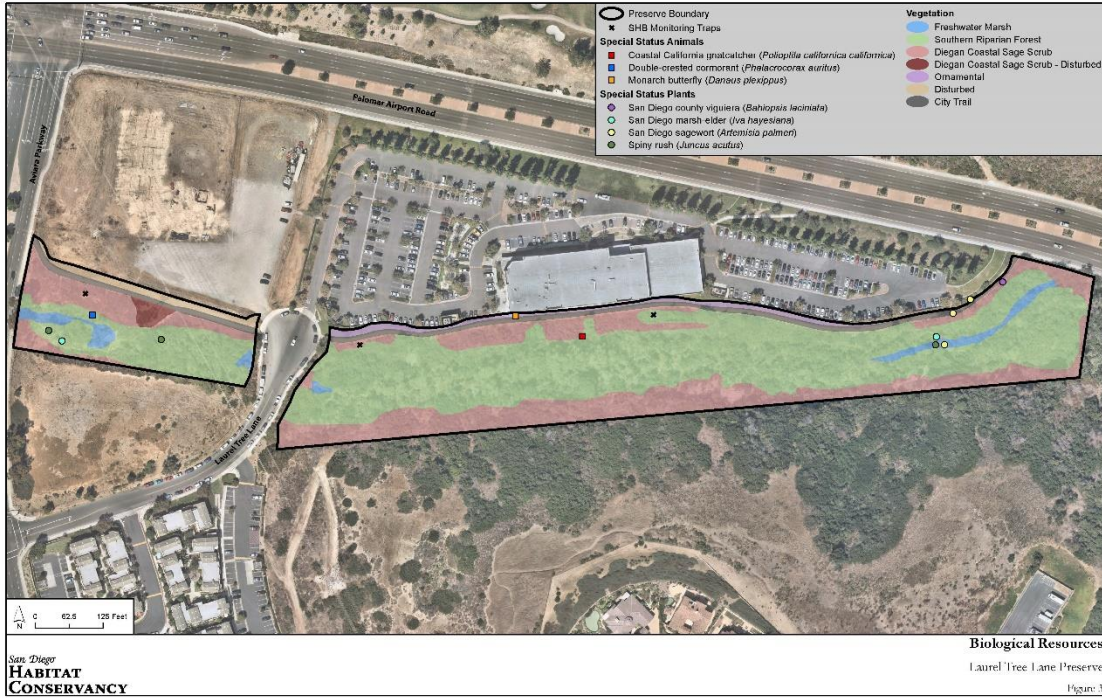
Emerald Pointe



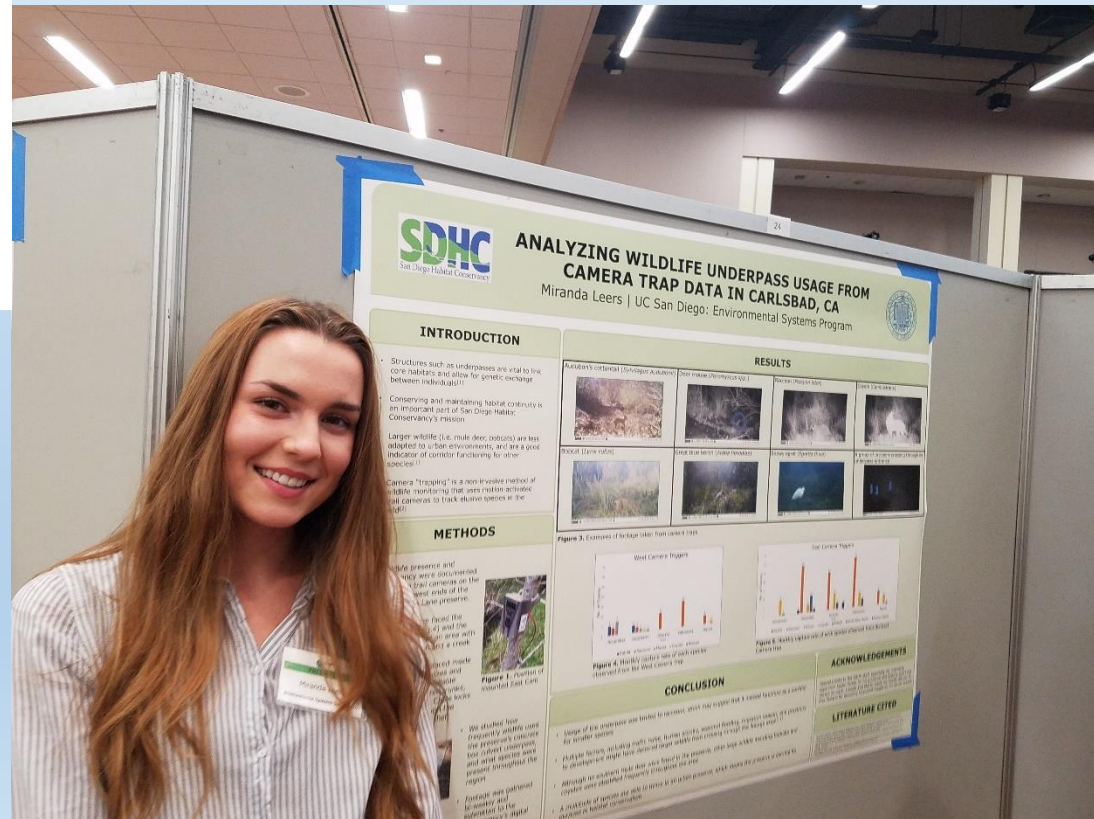
Pacific Ecological Foundation (PEF)

- Plan for enhancement.
- Solarizing portion of area this year, hopefully.
- Portion of seed sampled is being grown to seek SD thornmint.

Laurel Tree Lane



Bushnell LAURELTREELN 29.93in 67F 01-26-2019 15:53:17



Former intern Miranda Leers Wildlife Movement Study Presented Poster 2019

Laurel Tree Lane



Shot hole borer detected



Treatment planned within 2 months

Quarry Creek

7 least Bell's vireo were detected during protocol surveys 2019

CAGN incidental detections frequent year

Mitigation almost done

Seeking fencing and gate assistance from Oceanside end.

Negative for SHB



SDHC_DataCollection



Update 6/10/2018

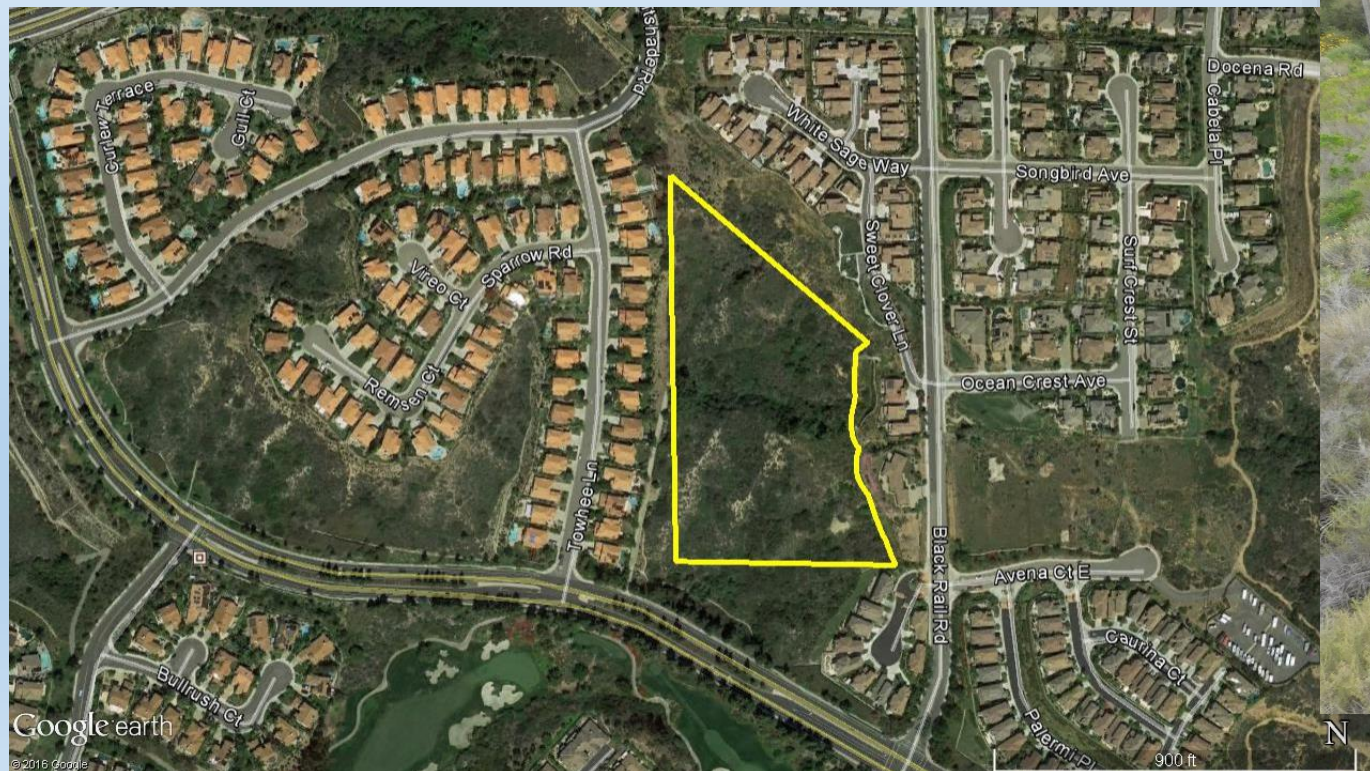
600ft

USDA FSA, DigitalGlobe, CNES/Airbus DS

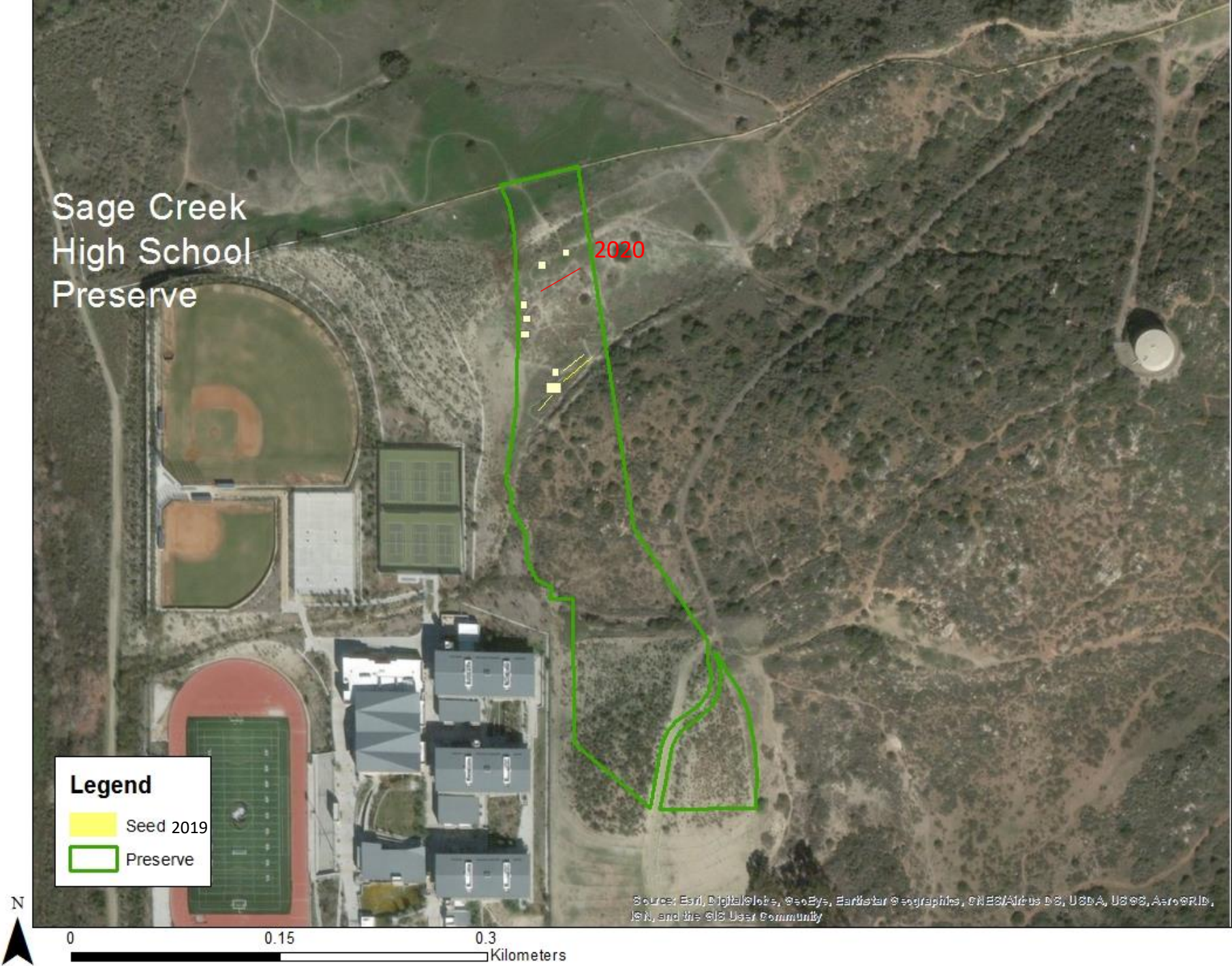
- **Muroya** (stepping stone linkage F for California gnatcatcher)

Two pair of California gnatcatcher detected in 2019

Newly documented California adolphia (*Adolphia californica*) within the Preserve.



Sage Creek High School More seeding





2019 seeded 300 square feet in previously treated areas.



2020 seeded 1100 square feet in raked grass area.

Sage Creek High School Preserve ~ Seeding

Weeding event with I Love a Clean San Diego Planned for April 25th at 9 am!!



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