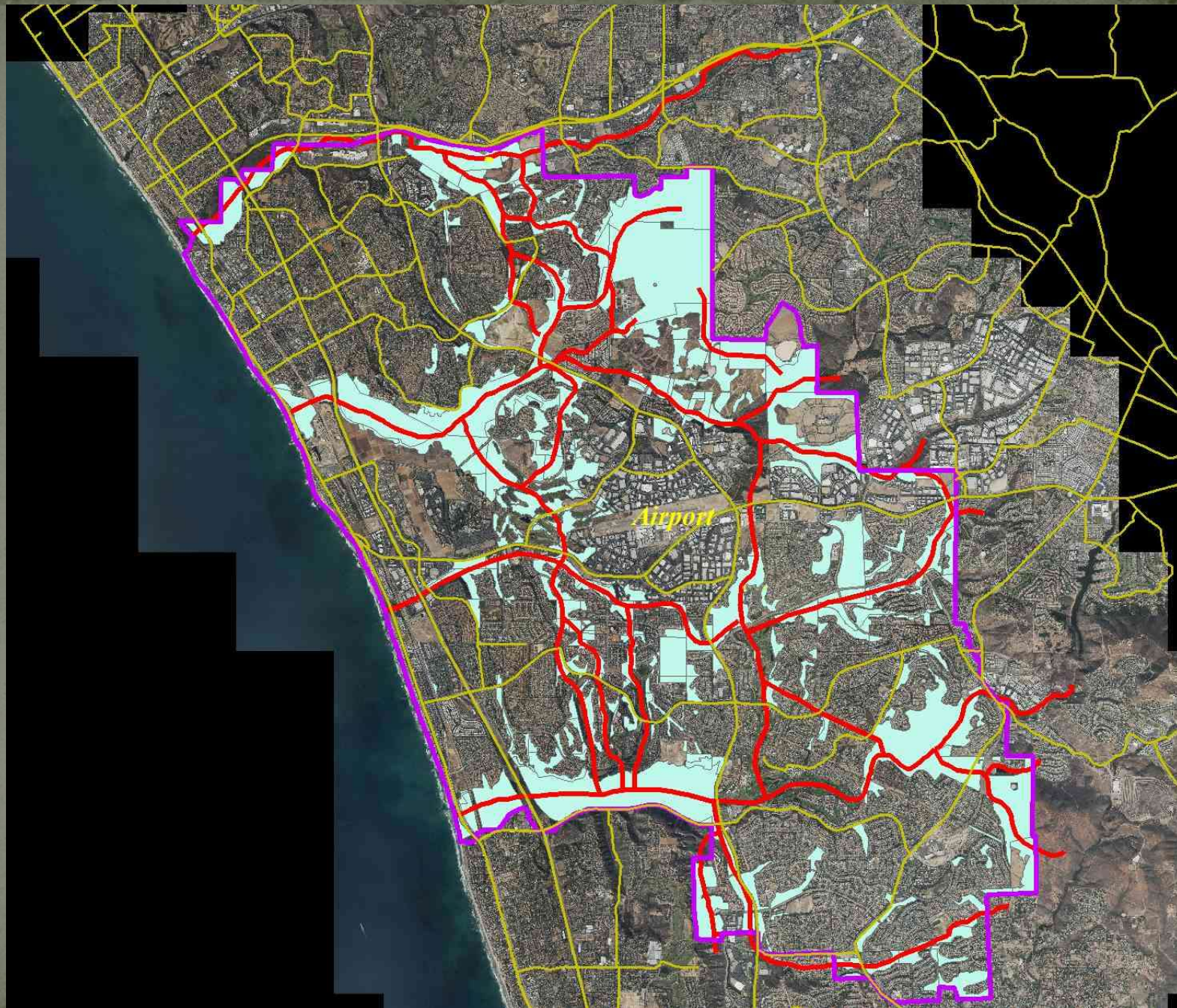


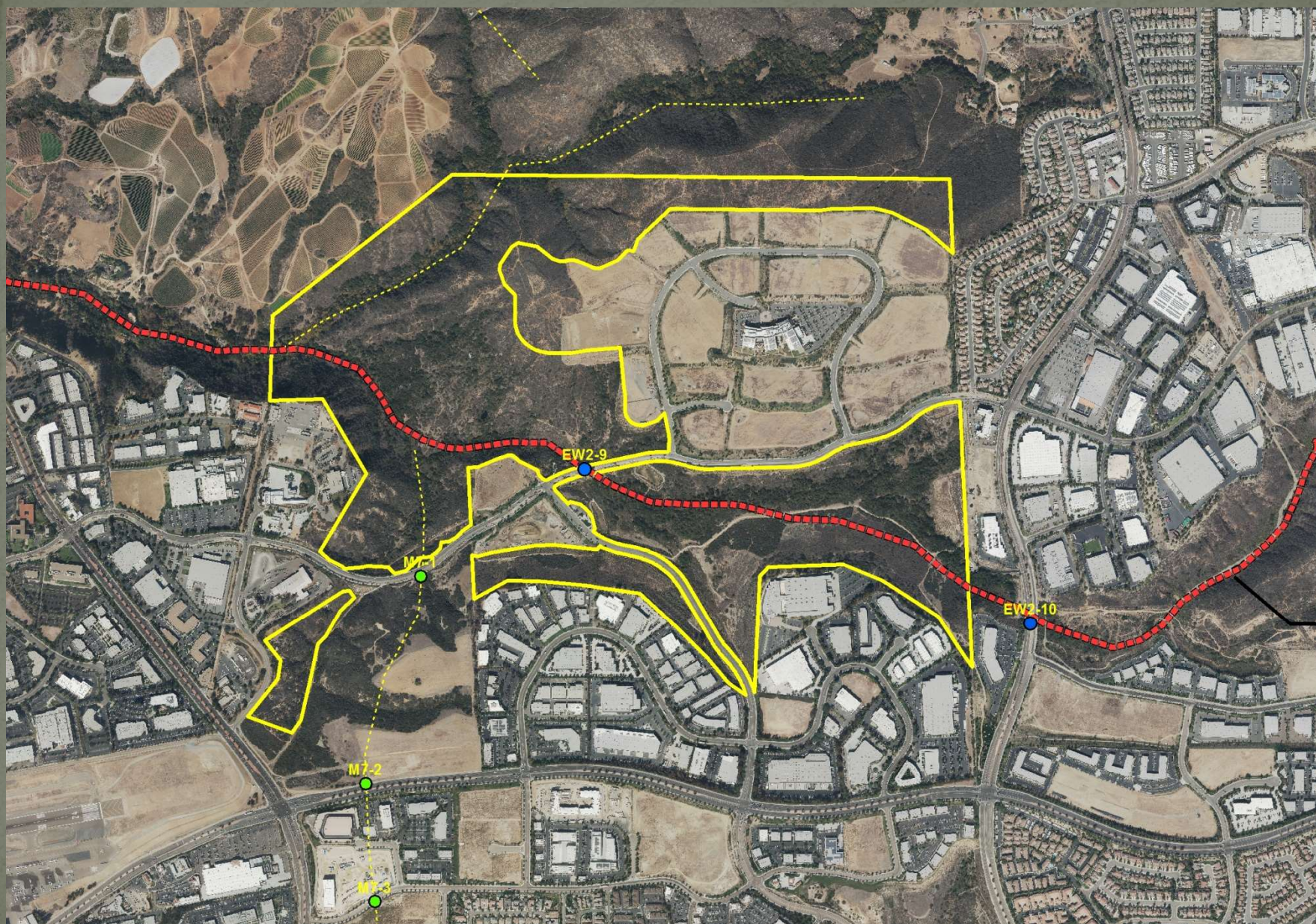
Center for Natural Lands Management

Wildlife Undercrossing Enhancement Project at Carlsbad Oaks North



Markus Spiegelberg,
San Diego Regional Preserve Manager
10-30-2018





Data Prior to Enhancement Activities

Many bobcats, coyote, skunk, opossum, squirrels and rabbits, but only 2 deer between 2011-2015 (650 trap nights)



Project Objectives

- Facilitate movement of mule deer at the Faraday Undercrossing (EW2-9) by removing vegetation
- Use wildlife cameras to document movement before and after enhancement activities

Project Methods

- Install 1 wildlife camera within tunnel
 - Various models used: Cuddeback Attack IR; Bushnell Trophy; Stealth Camera (various models)
 - 1-5 second delay; facing across tunnel
- Remove vegetation-clear path ~100 feet to tunnel on each side



Faraday Tunnel

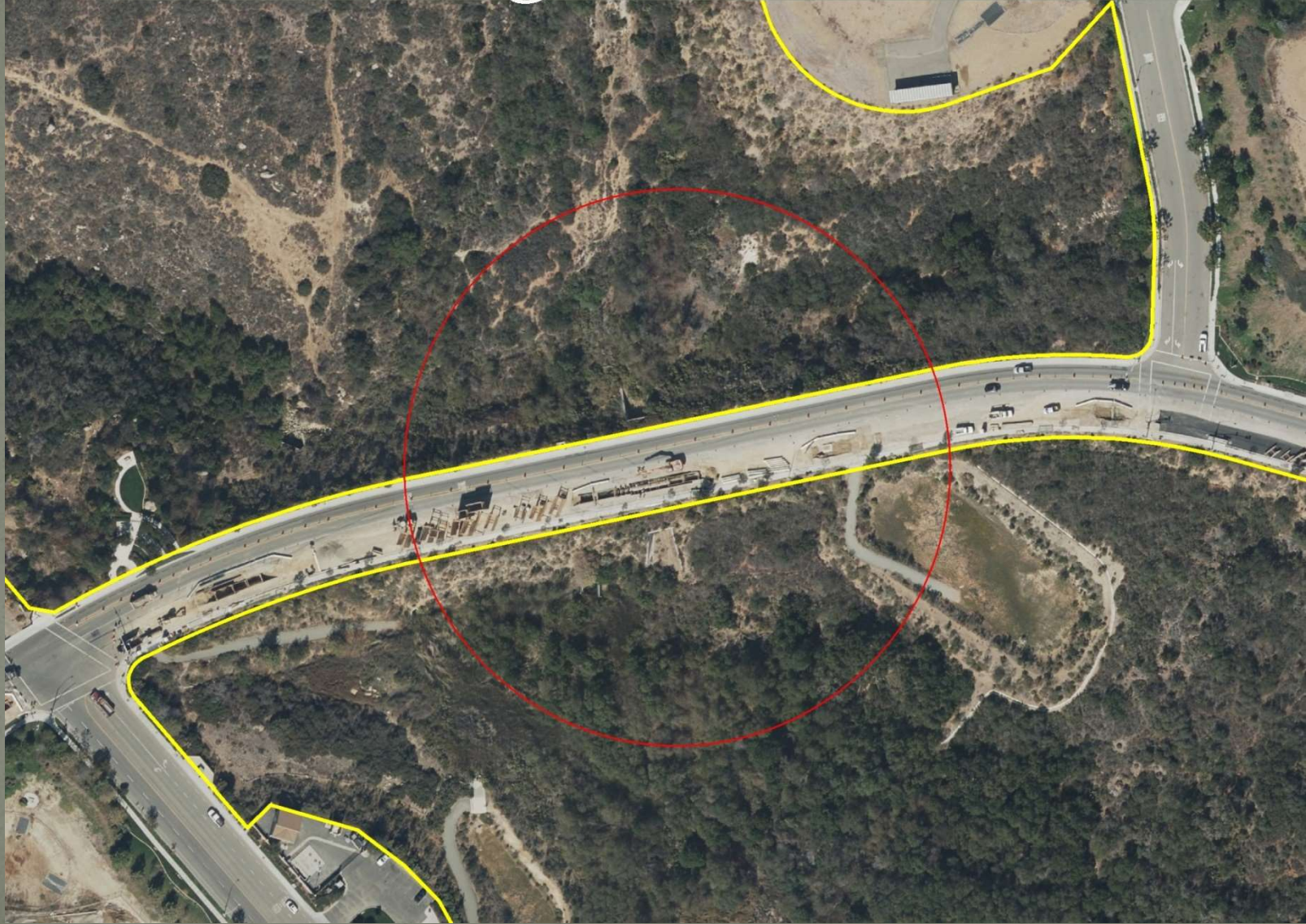
Height: 3.3 m

Width 6.6 m

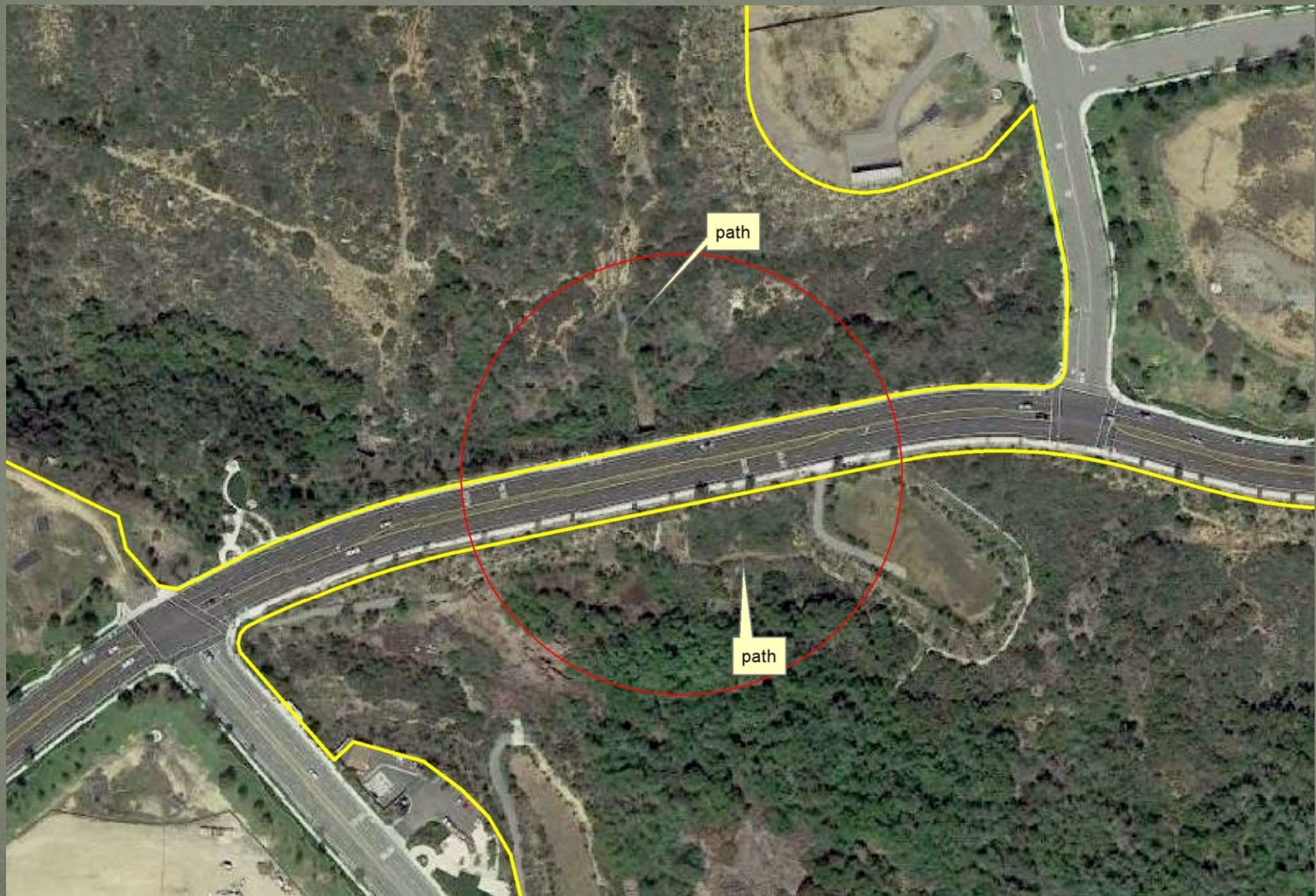
Length 35.5 m

No fencing to
guide animals

Before Vegetation Removal



After Vegetation Removal





Results

- >650 trap nights with only 2 deer between 2011-October-2015
- ~1000 trap nights with 452 photo of deer between October-2015 and August 2018



STEALTH CAM

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STEALTH CAM

Results 2

- Photos manually downloaded monthly
- Sorted and data manually entered into excel (date, time, etc)
- Sorted data using Pivot Tables



- Recommendations

- Main issue was camera theft
- Figure out how to use software to summarize data
- For deer, sometimes good to have burst photos (3/s) to get all deer that go through as they move in groups
- Unusual behavior...do you really want to know?





STEALTH CAM®

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08/11/18

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STEALTH CAM