

DOCKET

09-AFC-9

DATE <u>01/05/10</u>

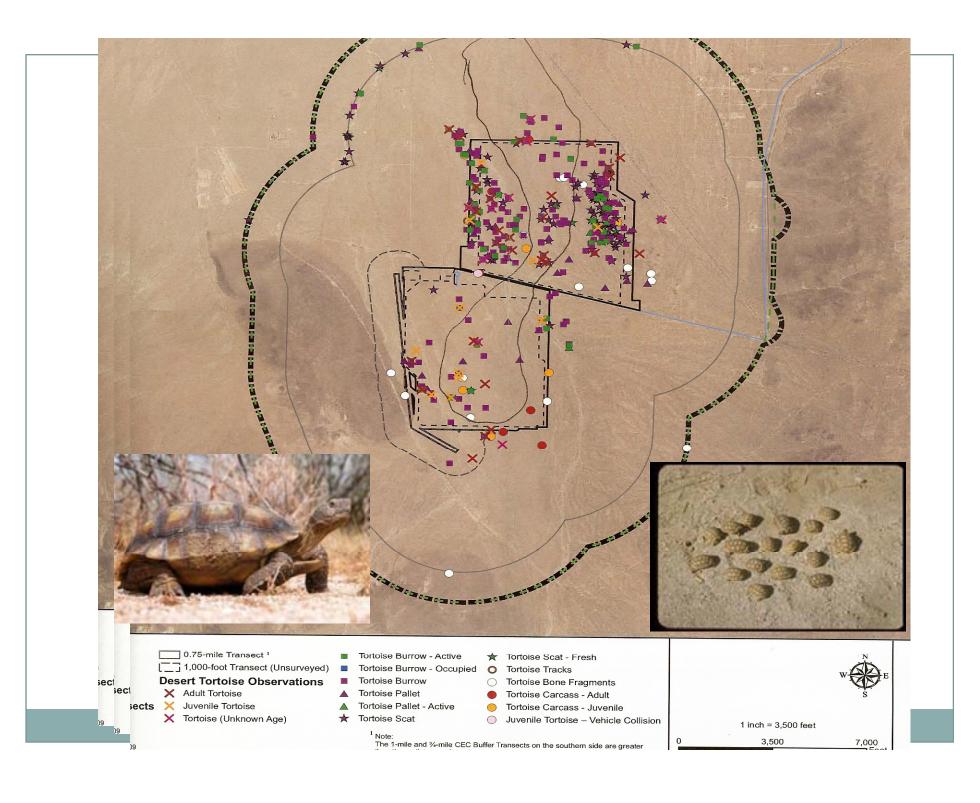
RECD. <u>01/19/10</u>

BIOLOGICAL RESOURCES

RIDGECREST SOLAR POWER PLANT PUBLIC WORKSHOP January 5-6, 2010

Desert Tortoise

- **DENSITY**
- **TRANSLOCATION**
- **TIMING**
- **COSTS**



Desert Tortoises Densities (USFWS 2009)

NE Mojave	Density (km²)
2001	2.4
2002	-
2003	3.7
2004	1.2
2005	1.8
2007	1.7
E Mojave	
2001	6.2
2002	4.1
2003	-
2004	5.3
2005	7.2
2007	5.8

E Colorado	Density (km²)
2001	10.1
2002	7.7
2003	4.0
2004	6.4
2005	7.9
2007	5.0
N Colorado	
2001	7.2
2002	
2003	6.3
2004	6.9
2005	10.8
2007	4.6

Desert Tortoises Densities (USFWS 2009)

W Mojave	Density (km²)
2001	5.6
2002	5.8
2003	3.8
2004	4.4
2005	6.1
2007	4.7

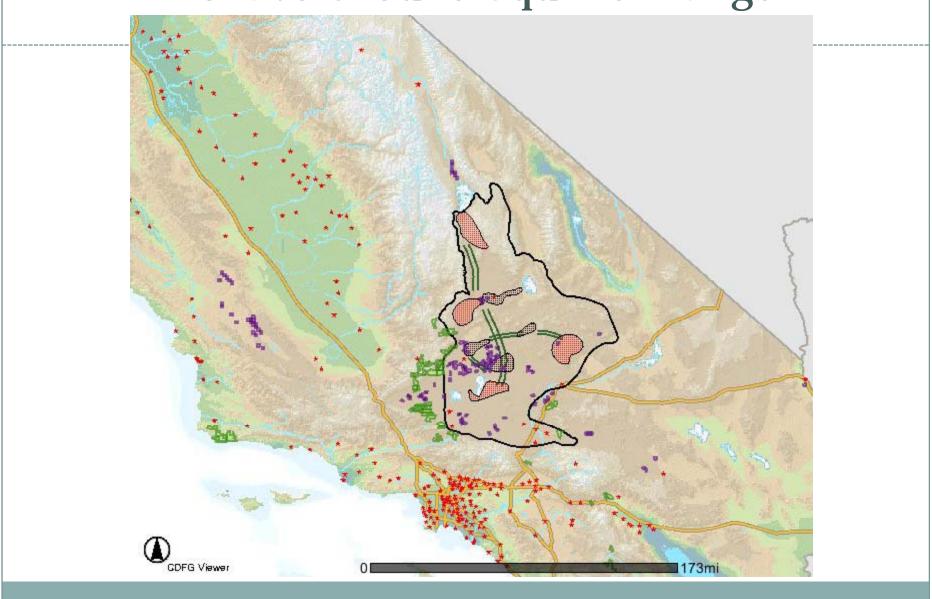
	Density (km²)
Ridgecrest SPP	9.8
Ivanpah SPP	1.6 (no correction)
	Raw Data (no correction)
Ridgecrest	5.1 (km²)
Ivanpah	1.6 (km ²)

Mojave Ground Squirrel

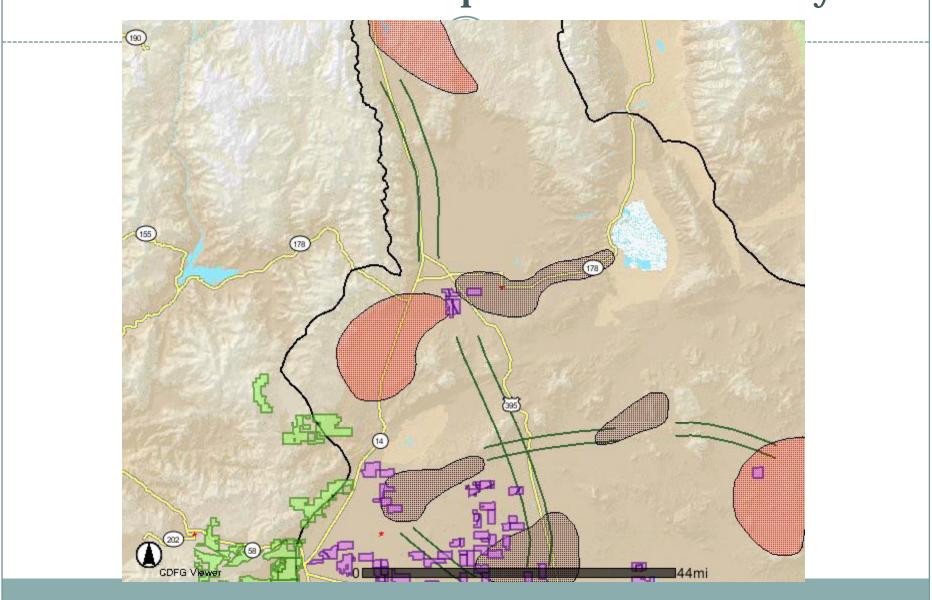
- **CONNECTIVITY**
- >TRANSLOCATION/RELOCATION
- **TIMING**
- **COSTS**



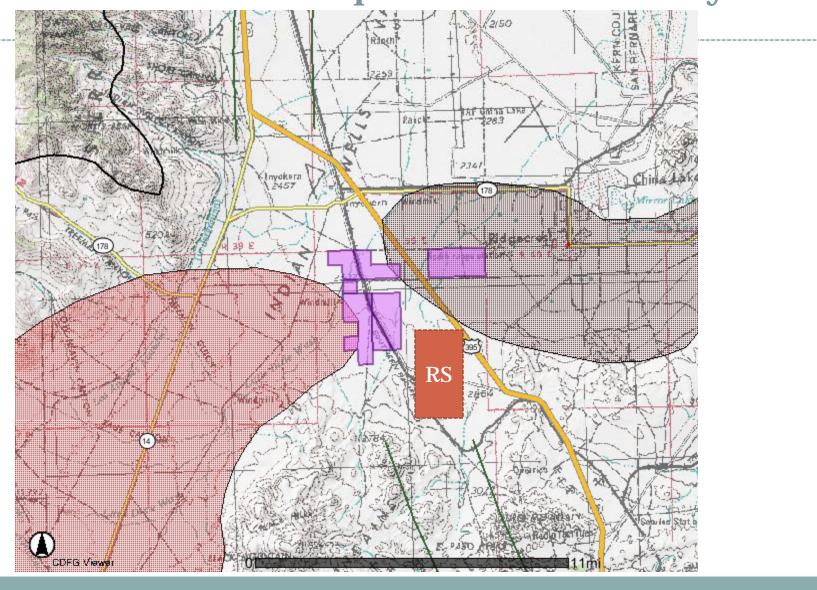
Mohave Ground Squirrel Range

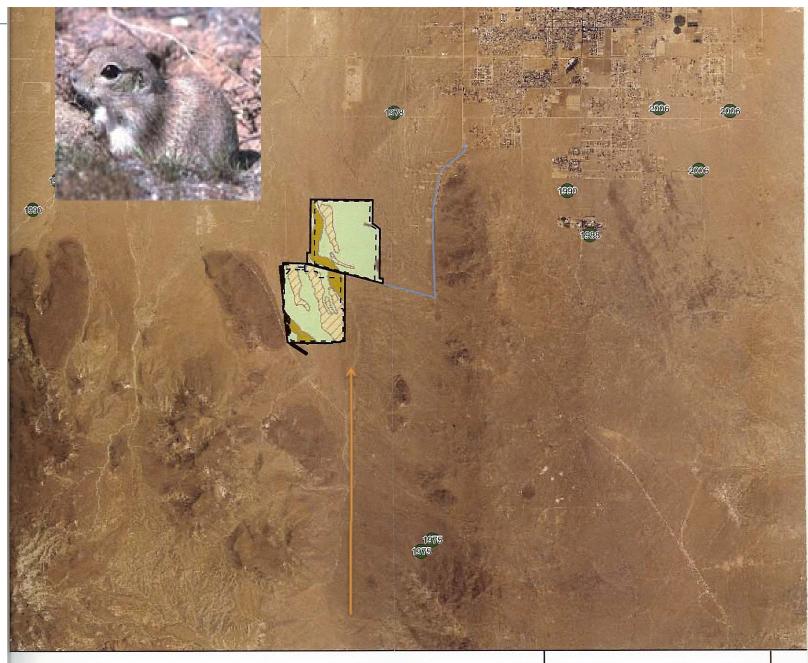


Mohave Ground Squirrel Connectivity



Mohave Ground Squirrel Connectivity





Mojave Ground Squirrel Habitat Quality ¹

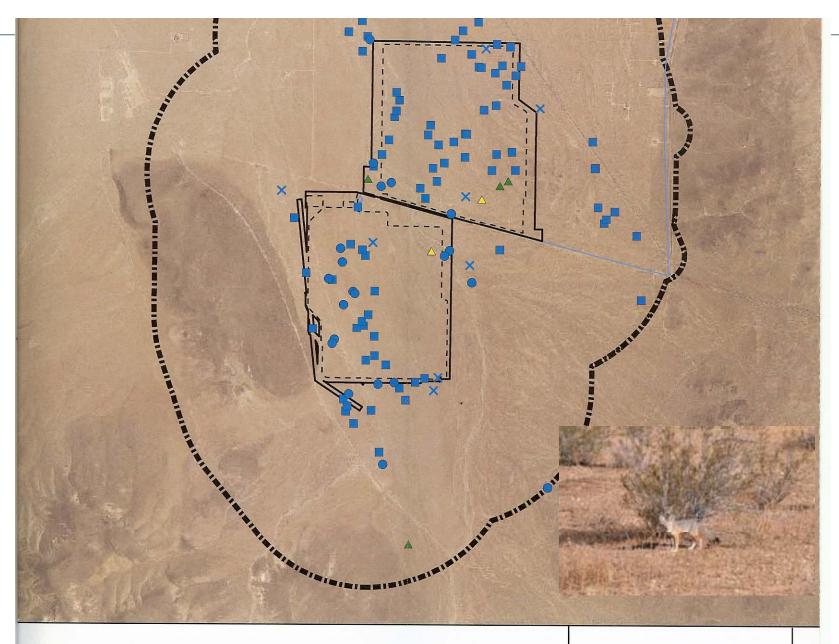


Other Sensitive Species

BURROWING OWL, DESERT KIT FOX AND AMERICAN BADGER

TRANSLOCATION/RELOCATION
Timing

LOGGERHEAD SHRIKE LE CONTE'S THRASHER MIGRATORY BIRDS FORAGING RAPTORS



Resident Special-Status Wildlife Species • Observations

- Burrow with Badger Claw Marks
- y Area (BRSA) X Active Kit Fox Burrow Complex

- Kit Fox Burrow
- Kit Fox Burrow Complex
- Loggerhead Shrike
- △ Le Conte's Thrasher



Other Topics

- PROVIDE CDFG WITH A COMPLETE APPLICATION FOR A 2081 PERMIT
- PROVIDE CDFG WITH A COMPLETE APPLICATION FOR STREAMBED ALTERATION AGREEMENT
- PROVIDE USFWS WITH A COMPLETE BIOLOGICAL ASSESSMENT
- **EL PASO WASH AND MINOR WASHES**
- **CUMULATIVE IMPACTS**
- >ALTERNATE LOCATION

Compensatory Mitigation

- ➤ Desert Tortoise: high density---difficult to mitigate
- ➤ Mohave Ground Squirrel: important connectivity--may not be able to mitigate
- Burrowing Owl
- Desert Kit Fox
- **➤** Other Sensitive Species
- **►** Indirect and Cumulative Impacts
- > 5:1 or greater ratio: 5 x 1760 = 8800 acres

