

**INITIAL MANAGEMENT EVALUATION REPORT
(IMER)**

For

VOGEL/CUCCIA-VOGEL PROPERTY



**Prepared by
Natural Resources Management Section
Riverside County Parks**

January, 2009

**Riverside County
Multi-Species Habitat Conservation Plan
Initial Management Evaluation Report
Habitat Management Unit: San Timoteo**

RESERVE NAME: **TIM 1/TIM 2**
ACQUISITION NAME: VOGEL/CUCCIA-VOGEL
PROJECT ID NUMBER: RC22000103 & RC22000097

1. SITE PHYSICAL DESCRIPTION

1.A. Site Physical Location & Access:

The Vogel/Cuccia-Vogel property is comprised of two separate parcels totaling 826.80-acres. From west to east they are VOGEL-A (471-270-004) and CUCCIA/VOGEL-B (473-060-005).

The Vogel/Cuccia-Vogel property is located north of Hwy 60, east of Smiley Boulevard, south of San Timoteo Canyon Road and west of Redlands Boulevard (a small 2.68 acre portion lays east of Redlands Blvd.). The site is located in the northwestern section of "The Moreno Badlands" and is somewhat accessible by vehicle on established trails; therefore, the majority of the property is only accessible by foot. The parcels general locations are:

PARCEL	UTM (NAD-27, meters)	STATE PLANE (NAD-83, feet)	TOWNSHIP/RANGE/SECTION (Sunnymead Quad)
A	483604E 3760627N	6280118E 2304386N	T2S, R3W, Section 22
B	484884E 3759976N	6284434E 2302058N	T2S, R3W, Section 23

1.B. APNs & Acreage:

APN	ACRES
471-270-004	160.44
473-060-005	666.36
TOTAL	826.80

1.C. Topography:

The majority of the property is rocky, very steep and ridged. The property is atop many small peaks and ridges in “The Moreno Badlands” mountain range and the small steep valleys between them. Given the location and topography of the site, the area is very difficult to fully access. The property can be accessed through established dirt roads during the dry season, but the roads may become impassable during the wet season, as many of the roads are washed out or heavily rutted.

1.D. Surrounding Land Use:

The immediate area of the site (< 1/2 mile radius) is surrounded by the natural open space of “The Moreno Badlands” area. Further away from the site (> 1/2 mile radius) low-density housing and ranches can be found. Given the established trails within the property and in the surrounding area, heavy off-highway vehicle (OHV) activity was noticed within the site and in the surrounding area.

2. BIOLOGICAL ASSESSMENT

2.A. Plant Communities:

The Vogel/Cuccia-Vogel property supports a mixture of non-native annual grasses, coastal sage scrub and chaparral plant communities. Plants identified during the initial site visit include: mule fat (*Baccharis salicifolia*), chamise (*Adenostoma fasciculatum*), sugar bush (*Rhus ovata*), brittlebush (*Encelia farinosa*), scrub oak (*Quercus berberidifolia*), tree tobacco (*Nicotiana glauca*), deerweed (*Lotus scoparius*), and mustard (*Brassica spp.*).

2.B. Likely Animal Species:

Animals likely to be found on the site could include the California ground squirrel (*Spermophilus beecheyi*), bobcat (*Lynx rufus*), coyote (*Canis latrans*), American crow (*Corvus brachyrhynchos*), common raven (*Corvus corax*), red-tailed hawk (*Buteo jamaicensis*), southern Pacific rattlesnake (*Crotalus viridis*), red-diamond rattlesnake (*Crotalus ruber*), western whiptail (*Cnemidophorus tigris*), and side-blotched lizard (*Uta stansburiana*).

2.C. Other Habitat or Wildlife Features:

There are a few intermittent drainages that exist within the Vogel/Cuccia-Vogel property and may be an important resource for species that utilize washes and drainages during the wet season. All of the smaller washes terminate into San Timeteo Wash to the north.

2.D. Target Species:

Please see Appendix A for a qualitative checklist of MSHCP target animal species, and Appendix B for plant species.

3. IMPACTS AND CURRENT CONDITIONS

3.A. Current Uses:

The site is currently being used as an area for equestrian activity, OHV activity, hunting and a target shooting. Efforts by County Parks to educate the public on the new land use rules within the property are on-going and difficult. The established history and tradition of recreational use within the property is well known and adds to the difficulty of maintaining public compliance to permitted uses.

A radio transmitter site is located in the northwest section of VOGEL-A (471-270-004). The radio transmitter is owned and operated by KCAA 1050 AM radio. Access to the radio transmitter can be obtained through Ebenezer Ranch along a private road that stems from San Timeteo Canyon Road.

3.B. Fencing & Access Controls:

Fencing along the eastern border of the site is on-going and is breached by OHV riders frequently. To date, County Parks has installed ±4000 feet of three-wire fencing along the eastern border to deter OHV activities and illegal hunting.

3.C. Off-Highway Vehicle (OHV) Use / Damage:

OHV use within the Vogel/Cuccia-Vogel property is well established and frequent activity can be found to occur at all times of the year. The majority of the riding is found to occur along established trails and washes; however, new trails are becoming established to circumvent the fencing and barriers established by Parks. OHV activities have been known to cause brush fires in the area and will need to be considered a legitimate source of ignition for wildfires in the future.

3.D. Illegal Dumping:

The majority of the illegal dumping can be found along Redlands Boulevard and the eastern border of CUCCIA/VOGEL-B. Illegal dumping usually consist of old construction, gardening and household refuse. Efforts to minimize the amount of illegal dumping (i.e., fencing, increased Ranger presence) have been implemented and have shown to minimize the amount of refuse dumped within

the Vogel/Cuccia-Vogel property. Illegal dumping is still found to occur along the shoulder of Redlands Boulevard outside of the Vogel/Cuccia-Vogel boundary.

3.E. Target Shooting & Hunting:

The Vogel/Cuccia-Vogel property has been used historically as a target shooting and hunting area. The majority of the hunting activity is concentrated at upland game, but a few deer hunters have been found hunting within the property boundary.

Target shooting, although infrequent, has been documented to occur in the southern section of CUCCIA/VOGEL-B.

3.F. Weed Abatement:

A small section of non-native grass will need to be abated every year. The location of weed abatement area is in the northeast corner of Vogel-A.

3.G. Other Recreational Opportunities and Constraints:

None.

3.H. Special Conditions of Purchase:

The previous owner's agreement to allow the radio station transmitter expired on December 31, 2008.

4. RESTORATION OPPORTUNITIES

4.A. Target Species:

Restoration activities should be aimed at improving habitat for the species that utilize the areas affected by OHV use. The large wash in Cuccia/Vogel-B is heavily impacted by OHV activity and would benefit in some enhancement work. Enhancement work should only be completed once OHV activity is minimal and has not become detrimental to the wash. Such enhancement might include replanting of vegetation damaged within and along the banks the wash to minimize erosion effects.

4.B. Multi-Species Aspects:

None foreseen.

5. RERSERVE DESIGN AND CONNECTIVITY

5.A. Boundary, Edge and Community Location:

Due to OHV disturbances within the site and its large size, the site supports a medium degree of edge effects.

5.B. Connectivity:

Collectively, the acquired parcels add to the overall goal of preserving habitat and establishing different core areas and linkages. The CUCCIA/VOGEL-B property will help establish Proposed Core Area 3, which will help establish open-space land continuity towards the San Jacinto Mountain Range, Existing Core Area K to the east and Existing Core Area H to the west.

VOGEL-A will help establish Proposed Linkage 4, which is designed to connect Existing Noncontiguous Habitat Block A (Box Springs Mountain) to Proposed Core Area 3.

5.C. Nearby Existing Reserves:

The nearest RCA (Regional Conservation Agency) property to the Vogel/Cuccia-Vogel property is the Pecuniary Capital property, which borders the Cuccia/Vogel property to the south. Other RCA properties that are within a 3-mile radius are the Riverside Clark and Moring Properties.

5.D. Priority for Future Purchases:

Given the high probability of development in the area, priority should be given to acquiring the parcels that exist between the Vogel/Cuccia-Vogel property and the Riverside Clark property to help establish Proposed Core Area 3. Priority should also be given to acquiring land between the Vogel/Cuccia-Vogel property and Existing Noncontiguous Habitat Block A (Box Springs Mountain), which would establish Proposed Linkage 4. This would ensure the continuity of open-space between the Box Springs Mountains, Proposed Linkage 4 and Proposed Core Area 3 in the future.

6. INTERIM MANAGEMENT

6.A. Public Issues:

Objection to new land use rules (i.e., No OHV use, No Hunting, etc.) is expected and on-going. Efforts to establish rapport, while educating the public on new land use rules, should be a top priority by County Rangers and Maintenance Workers.

The major complaint of OHV riders, when confronted in the field, is the concern of the lack of legal riding areas nearby (i.e., OHV Park etc.). Given the heavy OHV use in the county, efforts to establish a legal OHV riding park should be a top concern for OHV enthusiasts, citizens, scientists and environmentalists.

6.B. Biological Issues:

The biggest biological issue within the property is the presence of OHV activity and its detrimental affects on the habitat. Efforts to minimize or halt OHV activity should be a priority in the management of the land.

6.C. Recommended Interim Management Scenario:

Frequently patrol and inspect the site for new OHV trails and determine if the frequency of visitors is increasing or remaining the same by documenting any new disturbances to the land (e.g. new OHV trails, trash, shotgun shells etc.). Install new fencing or barriers, as needed, to decrease the amount non-permitted use activity.

Game cameras should be installed to better understand the wildlife that utilizes the property, which will give land managers a better understanding of how to manage the land for specific sensitive species.

7. MAPS – Appendix C.

8. SITE PHOTOGRAPHS – Appendix D.

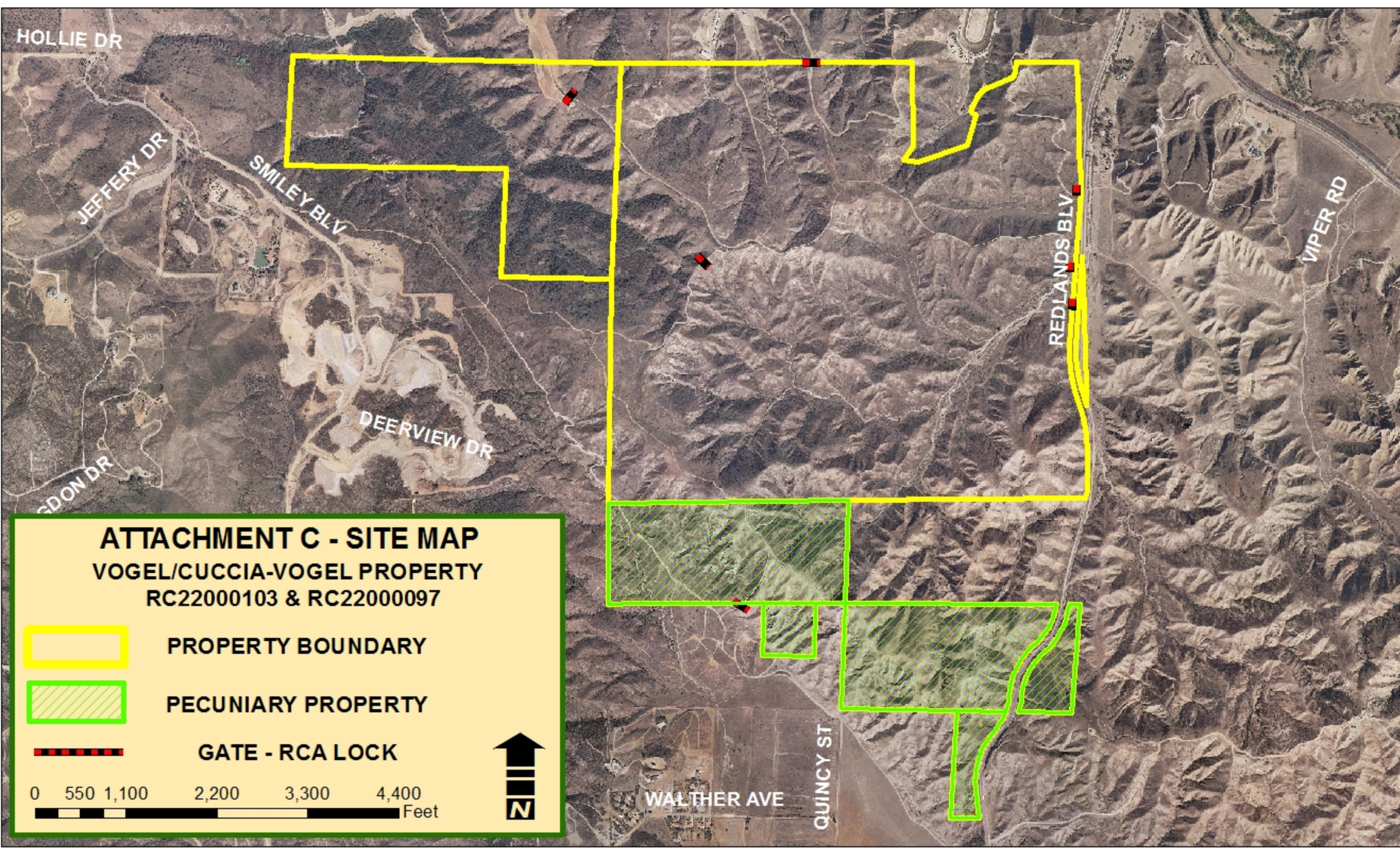
COMMON NAME	SCIENTIFIC NAME	HABITAT	NOT PRESENT	NOT LIKELY PRESENT	POSSIBLY PRESENT	LIKELY PRESENT	CONFIRMED PRESENT
INVERTEBRATES							
RIVERSIDE FAIRY SHRIMP	<i>Streptocephalus woottoni</i>	Vernal Pool	✓				
SANTA ROSA PLATEAU FAIRY SHRIMP	<i>Linderiella santarosae</i>	Vernal Pool	✓				
VERNAL POOL FAIRY SHRIMP	<i>Branchinecta lynchi</i>	Vernal Pool	✓				
INSECTS							
QUINO CHECKERSPOT BUTTERFLY	<i>Euphydryas editha quino</i>	Sage Scrub			✓		
DELHI SANDS FLOWER-LOVING FLY	<i>Rhaphiomidas terminus abdominalis</i>	Delhi Sands	✓				
FISH							
ARROYO CHUB	<i>Gila orcuttii</i>	Aquatic	✓				
SANTA ANA SUCKER	<i>Catostomus santaanae</i>	Aquatic	✓				
AMPHIBIANS							
COAST RANGE NEWT	<i>Taricha torosa tarosa</i>	Riparian / Intermittant Streams		✓			
ARROYO TOAD	<i>Bufo californicus</i>	Riparian / Well-watered Streams		✓			
WESTERN SPADEFOOT TOAD	<i>Scaphiopus hammondi</i>	Temp. Pools / Surrounding Uplands			✓		
CALIFORNIA RED-LEGGED FROG	<i>Rana aurora draytonii</i>	Permanent Streams and Rivers		✓			
MOUNTAIN YELLOW-LEGGED FROG	<i>Rana mucosa</i>	Mountain Streams / Rivers / Lakes	✓				
REPTILES							
WESTERN POND TURTLE	<i>Clemmys marmorata pallida</i>	Aquatic	✓				
SAN DIEGO COAST HORNED LIZARD	<i>Phrynosoma coronatum blainvillii</i>	Sage Scrub / Grasslands				✓	
SOUTHERN SAGEBRUSH LIZARD	<i>Sceloporus graciosus vandenburgianus</i>				✓		
GRANITE SPINY LIZARD	<i>Sceloporus orcuttii</i>	Sage Scrub with Rocks			✓		
GRANITE NIGHT LIZARD	<i>Xantusia henshawi henshawi</i>	Rocky sage scrub & chaparral			✓		
ORANGE-THROATED WHIPTAIL	<i>Cnemidophorus hyperythrus beldingii</i>	Sage Scrub				✓	
SAN DIEGO BANDED GECKO	<i>Coleonyx variegatus abbottii</i>	Sage Scrub / Chaparral			✓		
SAN BERNARDINO MOUNTAIN KINGSSNAKE	<i>Lampropeltis zonata parviruba</i>	Upper Elev. Chaparral & Mountains		✓			
SAN DIEGO MOUNTAIN KINGSSNAKE	<i>Lampropeltis zonata pulchra</i>	Upper Elev. Chaparral & Mountains		✓			
SOUTHERN RUBBER BOA	<i>Charina bottae umbratica</i>	Mountains	✓				
NORTHERN RED DIAMOND RATTLESNAKE	<i>Crotalus ruber ruber</i>	Sage Scrub / Chaparral				✓	
BIRDS							
DOUBLE-CRESTED CORMORANT	<i>Phalacrocorax auritus</i>	Aquatic	✓				
AMERICAN BITTERN	<i>Botaurus lentiginosus</i>	Marsh	✓				
GREAT BLUE HERON	<i>Ardea herodias</i>	Waterways & Surrounding Areas	✓				
BLACK-CROWNED NIGHT HERON	<i>Nycticorax nycticorax</i>	Waterways & Surrounding Areas	✓				
WHITE-FACED IBIS	<i>Plegadis chihi</i>	Waterways & Surrounding Areas	✓				
MOUNTAIN PLOVER	<i>Charadrius montanus</i>	Waterways & Surrounding Areas	✓				
TURKEY VULTURE	<i>Carthartes aura</i>	Cosmopolitan					✓
GOLDEN EAGLE	<i>Aquila chrysaetos</i>	Cosmopolitan			✓		
BALD EAGLE	<i>Haliaeetus leucocephalus</i>	Lakes	✓				
WHITE-TAILED KITE	<i>Elanus leucurus</i>	Brushy Grassland		✓			
NORTHERN HARRIER	<i>Circus cyaneus</i>	Brushy Grassland			✓		
SHARP-SHINNED HAWK	<i>Accipiter striatus</i>	Woodlands & Surrounding Areas			✓		
COOPER'S HAWK	<i>Accipiter cooperii</i>	Woodlands & Surrounding Areas			✓		
NORTHERN GOSHAWK	<i>Accipiter gentilis</i>	Mountains	✓				
SWAINSON'S HAWK	<i>Buteo swainsoni</i>	Open Country	✓				
FERRUGINOUS HAWK	<i>Buteo regalis</i>	Open Country		✓			
OSPREY	<i>Pandion haliaetus</i>	Lakes	✓				
MERLIN	<i>Falco columbarius</i>	Open Woods & Surrounding Areas		✓			
PRAIRIE FALCON	<i>Falco mexicanus</i>	Open Country		✓			
PEREGRINE FALCON	<i>Falco peregrinus</i>	Open Country Near Wetlands		✓			
MOUNTAIN QUAIL	<i>Oreortyx pictus</i>	Mountains		✓			
WESTERN YELLOW-BILLED CUCKOO	<i>Coccyzus americanus occidentalis</i>	Riparian		✓			
CALIFORNIA SPOTTED OWL	<i>Stryx occidentalis occidentalis</i>	Mountains	✓				
BURROWING OWL	<i>Athene cunicularia hypugaea</i>	Open Country		✓			
BLACK SWIFT	<i>Cypseloides niger</i>	Cliffs Near Water	✓				
WILLIAMSON'S SAPSUCKER	<i>Sphyrapicus thyroideus</i>	Mountains		✓			

DOWNY WOODPECKER	<i>Picoides pubescens</i>	Areas With Trees		✓			
SOUTHWESTERN WILLOW FLYCATCHER	<i>Empidonax traillie extimus</i>	Riparian			✓		
CALIFORNIA HORNED LARK	<i>Eremophila alpestris acta</i>	Open Grasslands & Sage Scrub			✓		
TREE SWALLOW	<i>Tachycineta bicolor</i>	Wooded Areas Near Water	✓				
PURPLE MARTIN	<i>Progne subis</i>	Open Country	✓				
CACTUS WREN	<i>Campylorhynchus brunneicapillus</i>	Sage Scrub With Cactus		✓			
COASTAL CALIFORNIA GNATCATCHER	<i>Poliophtila californica californica</i>	Sage Scrub		✓			
LOGGERHEAD SHRIKE	<i>Lanius lucovicianus</i>	Cosmopolitan				✓	
LEAST BELL'S VIREO	<i>Vireo bellii pusillus</i>	Extensive Riparian			✓		
NASHVILLE WARBLER	<i>Vermivora ruficapilla</i>	Riparian		✓			
YELLOW WARBLER	<i>Dendroica petechia brewsteri</i>	Riparian		✓			
McGILLIVRAY'S WARBLER	<i>Oporomis tolmiei</i>	Riparian		✓			
WILSON'S WARBLER	<i>Wilsonia pusilla</i>	Riparian		✓			
YELLOW-BREASTED CHAT	<i>Icteria virens</i>	Riparian		✓			
GRASSHOPPER SPARROW	<i>Ammodramus savannarum</i>	Grasslands			✓		
BELL'S SAGE SPARROW	<i>Amphispiza bellii bellii</i>	Chaparral			✓		
SO. CAL. RUFOUS-CROWNED SPARROW	<i>Aimophila ruficeps canescens</i>	Sage Scrub / Chaparral Slopes				✓	
LINCOLN'S SPARROW	<i>Melospiza lincolni</i>	Mountain Bogs & Meadows	✓				
TRICOLORED BLACKBIRD	<i>Agelaius tricolor</i>	Marsh		✓			
MAMMALS							
BOBCAT	<i>Lynx rufus</i>	Cosmopolitan				✓	
MOUNTAIN LION	<i>Puma concolor</i>	Remote Mountainous Areas				✓	
LONG-TAILED WEASEL	<i>Mustela frenata</i>	Open Country				✓	
COYOTE	<i>Canis latrans</i>	Cosmopolitan					✓
BRUSH RABBIT	<i>Sylvilagus bachmani</i>	Chaparral				✓	
SAN DIEGO BLACK-TAILED JACKRABBIT	<i>Lepus californicus bennettii</i>	Open Country				✓	
LOS ANGELES POCKET MOUSE	<i>Perognathus longimembris breviansus</i>	Streambeds & Sandy Areas			✓		
NORTHWESTERN SAN DIEGO POCKET MOUSE	<i>Chaetodipus fallax fallax</i>	Sage Scrub / Chaparral				✓	
AGUNAGA KANGAROO RAT	<i>Dipodomys merriami collinus</i>	Sandy Areas Near Aguanga	✓				
SAN BERNARDINO KANGAROO RAT	<i>Dipodomys merriami parvus</i>	Sandy Areas / San Jacinto River		✓			
DELZURA KANGAROO RAT	<i>Dipodomys simulans</i>	Sage Scrub / Chaparral			✓		
STEPHENS' KANGAROO RAT	<i>Dipodomys stephensi</i>	Open Country		✓			
SAN DIEGO DESERT WOODRAT	<i>Neotoma lepida intermedia</i>	Sage Scrub / Chaparral				✓	
SAN BERNARDINO FLYING SQUIRREL	<i>Glaycomys sabrinus californicus</i>	Mountains	✓				

COMMON NAME	SCIENTIFIC NAME	HABITAT(S)	GENERAL LOCATIONS	NOT PRESENT	NOT LIKELY PRESENT	POSSIBLY PRESENT	LIKELY PRESENT	CONFIRMED PRESENT
beautiful hulsea	<i>Hulsea vestita</i> var. <i>callicarpa</i>	Mid-level mountains	SJMTS			✓		
Brand's phacelia	<i>Phacelia stellaris</i>	Sandy benches	SARIV	✓				
California beardtongue	<i>Penstemon californicus</i>	Mid-level mountains	SJMTS, DVA, SRP		✓			
California bedstraw	<i>Galium californicum</i> var. <i>primum</i>	Upper elevation chaparral	SJMTS, DVA, San Timoteo			✓		
California black walnut	<i>Juglans californica</i> var. <i>californica</i>	Streams	SRP, Pedley		✓			
California muhly	<i>Muhlenbergia californica</i>	Riparian / seeps	Sage area, Prado area, GAV, TEM		✓			
California Orcutt grass	<i>Orcuttia californica</i>	Vernal pools	SALT, SRP, SKUNK	✓				
chickweed oxytheca	<i>Oxytheca caryophylloides</i>	Mountains	SJMTS		✓			
Cleveland's bush monkeyflower	<i>Mimulus clevelandii</i>	Upper elevation chaparral	SAMTS			✓		
cliff cinquefoil	<i>Potentilla rimicola</i>	High elevation rocks	SJMTS		✓			
Coulter's goldfields	<i>Lasthenia glabrata</i> var. <i>coulteri</i>	Alkali vernal plains	SJVAL, Perris Valley, Nichols Rd.	✓				
Coulter's matilija poppy	<i>Romneya coulteri</i>	Dry washes and canyons	GAV, TEM			✓		
Davidson's saltscale	<i>Atriplex sereana</i> var. <i>davidsonii</i>	Alkali vernal plains and pools	SJVAL, Perris Valley, Nichols Rd.	✓				
Englemann oak	<i>Quercus engelmannii</i>	Mesic fans and slopes	SRP, SAMTS, GAV		✓			
Fish's mildwort	<i>Polygala cornuta</i> var. <i>fishiae</i>	Oak riparian woodlands	SRP, SAMTS, Temecula area			✓		
graceful tarplant	<i>Holocarpa virgata</i> <i>elongata</i>	Level grasslands and shrublands	SRP		✓			
Hall's monardella	<i>Monardella macrantha</i> var. <i>hallii</i>	Mountain foothills, dry slopes, ridges	SAMTS, Pine Cove aera			✓		
Hammitt's clay-cress	<i>Sibaropsis hammittii</i>	Clay grasslands	SAMTS	✓				
heart-leaved pitcher plant	<i>Lepechinia cardiophylla</i>	Forests	SAMTS	✓				
intermediate mariposa lily	<i>Calochortus weedii</i> var. <i>intermedius</i>	Dry rocky slopes in SS / CHAP, burned areas	SAMTS, DVA, VAIL			✓		
Jaegar's milk-vetch	<i>Astragalus pachypus</i> var. <i>jaegeri</i>	Dry areas	VAIL, Agunaga area, Protrero area		✓			
Johnston's rock cress	<i>Arabis johnstonii</i>	Upper elevation chaparral, forests	SJMTS			✓		
lemon lily	<i>Lilium parryi</i>	Mountain wet places	SJMTS	✓				
little mousetail	<i>Myosaurus minimum</i> <i>apus</i>	Vernal pools, alkali sinks	SALT, SRP, GAV, MARB	✓				
long-spined spine flower	<i>Chorizanthe polygonoides</i> var. <i>longispina</i>	Rocky clay soils	GAV, TEM, SAMTS, SRP		✓			
many-stemmed dudleya	<i>Dudleya multicaulis</i>	Rocky clay soils, outcrops	GAV, TEM		✓			
Mojave tarplant	<i>Deinandra</i> [<i>Hemizonia</i>] <i>mohavensis</i>	Clay or silty streams	SJMTS and foothills		✓			
mud nama	<i>Nama stenocarpum</i>	Marshes	SJRIV near Gilman	✓				
Munz's mariposa lily	<i>Calochortus palmeri</i> var. <i>munzii</i>	Mountains, chaparral	SJMTS			✓		
Munz's onion	<i>Allium munzii</i>	Clay soils in SS / CHAP / Grasslands	GAV, TEM, SAMTS, SKUNK, SKIN			✓		
Nevin'a barberry	<i>Berberis nevinii</i>	Course soils in chaparral	Varies			✓		
ocellated Humboldt lily	<i>Lilium humboldtii</i> <i>ocellatum</i>	Mountain riparian	SAMTS, Palomar Mts.		✓			
Orcutt's brodiaea	<i>Brodiaea orcuttii</i>	Mesic grasslands and pools	SRP	✓				
Palmer's grapplinghook	<i>Harpagonella palmeri</i>	Clay soils in SS / CHAP / Grasslands	varies			✓		
Palomar monkeyflower	<i>Mimulus diffusus</i>	Sandy soils in upper elev. CHAP, forests	SAMTS, SJMTS			✓		
Parish's brittlescale	<i>Atriplex parishii</i>	Alkaine soils	SALT, lower SJRIV	✓				

APPENDIX B.
 Target Plant Species

Parish's meadowfoam	<i>Limnanthes gracilis</i> var. <i>parishii</i>	Ephemeral wetlands	SRP	✓				
Parry's spine flower	<i>Chorizanthe parryi</i> var. <i>parryi</i>	Alluvial scrub	Varies		✓			
Payson'r jewelflower	<i>Caulanthus simulans</i>	Pinyon-Juniper, chaparral, sage scrub	Agunaga area			✓		
peninsular spine flower	<i>Chorizanthe leptotheca</i>	Dry open areas	Varies		✓			
Plummer's mariposa lily	<i>Calochortus plummerae</i>	Varies	SJMTS, Jurupa Hills			✓		
prostrate navarretia	<i>Navarretia prostrata</i>	Sage scrub, vernal pools, grasslands	SRP			✓		
prostrate spine flower	<i>Chorizanthe procumbrens</i>	Sandy openings in CHAP / SS	SAMTS			✓		
Rainbow manzanita	<i>Arctostaphylos rainbowensis</i>	Iron rich soils in chaparral	SRP, GAV, TEM, Wildomar area			✓		
round-leaved filaree	<i>Erodium macrophyllum</i>	Grasslands	GAV, DVA, TEM		✓			
San Diego ambrosia	<i>Ambrosia pumila</i>	Grasslands	Alberhill, Lake Street, SKUNK		✓			
San Diego button-celery	<i>Eryngium aristulatum</i> var. <i>parishii</i>	Vernal pools	SRP	✓				
San Jacinto Mountains bedstraw	<i>Galium angustifolium jacinticum</i>	Forests	SJMTS	✓				
San Jacinto Valley crownscale	<i>Atriplex coronatum</i> var. <i>notator</i>	Floodplains	MYSTIC, SALT		✓			
San Miguel savory	<i>Satureja chandleri</i>	Varies	SRP	✓				
Santa Ana River woollystar	<i>Erastrum densifolium sanctorum</i>	Alluvial scrub (immature)	SARIV	✓				
shaggy-haired alumroot	<i>Heuchera hirsutissima</i>	Forests	SJMTS	✓				
slender-horned spine flower	<i>Dodecahema leptoceras</i>	Alluvial scrub (mature)	Indian Creek, VAIL area	✓				
small-flowered microserius	<i>Microserius douglasii</i> var. <i>platycarpha</i>	Clay foothills and grasslands	SRP, Bachelor Mt. area	✓				
small-flowered morning-glory	<i>Convolvulus simulans</i>	Clay and serpentine soils in grasslands	Varies		✓			
smooth tarplant	<i>Centromadia pungens</i> (<i>Hemizonia pungens laevis</i>)	Varies	Varies			✓		
spreading navarretia	<i>Navarretia fossalis</i>	Vernal pools and ditches	SALT, SJRIV		✓			
sticky-leaved dudleya	<i>Dudleya viscida</i>	Rocky canyon slopes	SAMTS		✓			
thread-leaved brodiaea	<i>Brodiaea filifolia</i>	Alkali pools, mesic grasslands	SJRIV, SALT, SRP		✓			
Vail Lake ceanothus	<i>Ceanothus ophiochilus</i>	Dry ridgetops in chaparral	VAIL area			✓		
vernal barley	<i>Hordeum intercedens</i>	Vernal pools and mesic grasslands	SALT, SJRIV		✓			
Wright's trichocoronis	<i>Trichocoronis wrightii</i> var. <i>wrightii</i>	Alkali vernal pools and flats	SJRIV, MYSTIC	✓				
Yucaipa onion	<i>Allium marvinii</i>	Clay soils in chaparral	Beaumont area			✓		



HOLLIE DR

JEFFERY DR

SMILEY BLV

DEERVIEW DR

REDLANDS BLV

VIPER RD

WALTHER AVE

QUINCY ST

ATTACHMENT C - SITE MAP
VOGEL/CUCCIA-VOGEL PROPERTY
RC22000103 & RC22000097



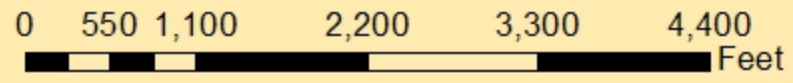
PROPERTY BOUNDARY



PECUNIARY PROPERTY



GATE - RCA LOCK



APPENDIX D.



Antennae site looking east.



Middle of Cuccia/Vogel-B looking south.

APPENDIX D.



Middle of Cuccia/Vogel-B looking north.



Northern Border of Vogel-A looking south.