Appendix J  Focused San Bernardino Kangaroo Rat and Los Angeles Pocket Mouse Survey Report
September 26, 2005

Ms. Yvonne C. Moore  
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California Department of Fish and Game  
4500 Glenwood Drive, Building C  
Riverside, California 92501

Daniel Marquez  
U.S. Fish and Wildlife Service  
Carlsbad Field Office  
6010 Hidden Valley Road  
Carlsbad, California 92011

Dr. John Gustafson  
Wildlife Management Division  
California Department of Fish and Game  
1416 Ninth Street, Suite 1341  
Sacramento, California 94244

Subject: Mid County Parkway Project at San Jacinto River, County of Riverside – Protocol San Bernardino Kangaroo Rat and Los Angeles Pocket Mouse Trapping, July 2005 (LSA Project No. JCV531)

Dear Ms. Moore, Mr. Marquez, and Dr. Gustafson:

This letter report documents the results of five nights of small mammal live-trapping on the approximately 35-acre study area in an unincorporated portion of Riverside County, California, conducted by LSA Associates, Inc. (LSA). The trapping was done to determine the presence or absence of the endangered San Bernardino kangaroo rat (Dipodomys merriami parvus) and the Los Angeles pocket mouse (Perognathus longimembris brevinasus), a California Species of Special Concern. The results of this protocol survey are negative for the San Bernardino kangaroo rat, but we report 34 captures of the Los Angeles pocket mice involving at least nine individuals.

STUDY AREA

The approximately 35-acre site is located in the eastern half of Section 8, Township 4 South, Range 1 West, as shown on the USGS 7.5-minute Lakeview quadrangle (enclosed Figure 1). Approximate UTM coordinates are \( ^{7}44^\text{m} \) on the north, \( ^{7}43^\text{m} \) on the south, \( ^{4}99^\text{m} \) on the west, and \( ^{9}99^\text{m} \) on the east. The elevation of the nearly flat study area is approximately 1,480 feet above mean sea level.

The study area is located on both sides of Sanderson Avenue within and adjacent to the San Jacinto River. Vegetation primarily consists of alluvial fan sage scrub and non-native grasses.

METHODS

Richard Erickson and/or Leo Simone were present and responsible for the entire trapping effort, pursuant to LSA's Federal Fish and Wildlife Permit PRT-777965 (May 10, 2004–May 9, 2007) and a temporary authorization from the California Department of Fish and Game (May 12, 2003–March 31, 2007) in lieu of a Memorandum of Understanding between LSA and the Department. A total of 214 Sherman live traps were set the first evening. They were arranged in five tralines (as shown in enclosed Figure 2 as A–E) in those areas with the most rodent burrows and that appeared most
suitable for the San Bernardino kangaroo rat. A total of 1,070 trap nights were accumulated by the end of the five nights.

In the evening, the traps were set and baited with a mixture of wild bird seed and rolled oats. Traps were checked before midnight and at dawn, at which time all captured animals were identified and released unharmed.

RESULTS
Trapping resulted in 671 rodent captures involving seven species. Deer mouse (*Peromyscus maniculatus*) was the most commonly captured species. A summary of the trapping results is shown in enclosed Table A. A completed California Native Species Field Survey Form is attached to this report.

Sincerely,

LSA ASSOCIATES, INC.

Richard Erickson
Associate/Biologist

Leo Simone
Senior Biologist

Attachments:  Figure 1
Figure 2
Table A
California Native Species Field Survey Forms

I CERTIFY THAT THE INFORMATION IN THIS SURVEY REPORT AND ATTACHED EXHIBITS FULLY AND ACCURATELY REPRESENTS MY WORK:

SURVEYOR:   PERMIT NUMBER:   DATE:

Richard Erickson   TE-777965   28 Sep 2005

Leo Simone   TE-777965   9/28/05
Figure 1

Buffer Area as of 7/14/05

Trap Lines

SOURCE: Jacobs (2005); USGS 7.5' Quad Lakeview & San Jacinto, CA (79)

R:\JC\V\G\Reports\SBKR\Regional_Location.mxd (08/01/08)
Figure 2

Legend

- Buffer Area as of 07/14/05
- Los Angeles Pocket Mouse Locations
- Trap Line

SOURCE: Jacobs (2005); Eagle Aerial (2004)
Table A – Mid County Parkway Project at San Jacinto River, County of Riverside, July 2005 (Capture Totals)

<table>
<thead>
<tr>
<th>Date</th>
<th>July 10</th>
<th>July 11</th>
<th>July 12</th>
<th>July 12</th>
<th>July 13</th>
<th>July 13</th>
<th>July 14</th>
<th>July 14</th>
<th>July 14</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Traps Checked</td>
<td>214</td>
<td>214</td>
<td>214</td>
<td>214</td>
<td>214</td>
<td>214</td>
<td>214</td>
<td></td>
<td></td>
<td>1070</td>
</tr>
<tr>
<td><strong>Species</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>California ground squirrel <em>Spermophilus beecheyi</em></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Los Angeles pocket mouse <em>Perognathus longimembris brevinasus</em></td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>0</td>
<td>9</td>
<td>2</td>
<td>5</td>
<td>1</td>
<td>6</td>
<td>34</td>
</tr>
<tr>
<td>San Diego pocket mouse <em>Chaetodipus fallax fallax</em></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Pacific/San Diego kangaroo rat <em>Dipodomys agilis/simulans</em></td>
<td>1</td>
<td>7</td>
<td>4</td>
<td>16</td>
<td>13</td>
<td>12</td>
<td>10</td>
<td>11</td>
<td>10</td>
<td>19</td>
</tr>
<tr>
<td>Deer mouse <em>Peromyscus maniculatus</em></td>
<td>32</td>
<td>58</td>
<td>38</td>
<td>64</td>
<td>49</td>
<td>70</td>
<td>46</td>
<td>59</td>
<td>28</td>
<td>61</td>
</tr>
<tr>
<td>San Diego desert woodrat <em>Neotoma lepida intermedia</em></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>4</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>California vole <em>Microtus californicus</em></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3</td>
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<tr>
<td><strong>Total Rodent Captures</strong></td>
<td>35</td>
<td>71</td>
<td>48</td>
<td>83</td>
<td>75</td>
<td>88</td>
<td>63</td>
<td>76</td>
<td>44</td>
<td>85</td>
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</tbody>
</table>

9/26/2005 (R:\JC\531\Biology\Small Mammal Trapping\SBKR\SBKR Rpt.doc)
California Native Species Field Survey Form

Scientific Name: *Peregrinus longimembris*

Common Name: *Los Angeles Pocket Mouse*

Species Found? ☐ Yes ☐ No

Total No. Individuals: 37

Is this an existing NDBB occurrence? ☐ yes ☐ no ☐ unk.

Collection? If yes: 

Plant Information

<table>
<thead>
<tr>
<th>Phenology</th>
<th>% Vegetative</th>
<th>% Flowering</th>
<th>% Fruiting</th>
</tr>
</thead>
</table>

Animal Information

<table>
<thead>
<tr>
<th>Adults</th>
<th>Juveniles</th>
<th>Larvae</th>
<th>Egg Masses</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>37</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: *Riverside*

Quad Name: *Lakeview*

Datum: NAD27 ☐ NAD83 ☐ WGS84 ☐

Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ OR Geographic (Latitude & Longitude) ☐

Elevation: 1400'

Source of Coordinates (GPS, topo. map & type): *TPO*

GPS Make & Model

Horizontal Accuracy

Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope):

*Alluvial Fan Sage Scrub & Non-native Grasses*

Other rare species?

Site Information

Overall site quality: ☐ Excellent ☑ Good ☐ Fair ☐ Poor

Current / surrounding land use:

Visible disturbances: Construction of Adjacent Retention Basin

Threats:

Comments:

Determination: (check one or more, and fill in blanks)

- Keyed (cite reference):
- Compared with specimen housed at:
- Compared with photo / drawing in:
- By another person (name):
- Other:

Photographs: (check one or more)

- Slide
- Print
- Digital

May we obtain duplicates at our expense? ☐ yes ☐ no
California Native Species Field Survey Form

Scientific Name: Neotoma lepida

Common Name: San Diego Desert Woodrat

Species Found? ☐ No ☑ Yes

Total No. Individuals: 20

Is this an existing NDBB occurrence? ☑ Yes, Occ. #

Collection? If yes: ☐ Number ☑ Museum / Herbarium

Plant Information

Phenology:

% vegetative % flowering % fruiting

Animal Information

# adults # juveniles # larvae # egg masses # unknown

 breeding wintering burrow site rookery nesting other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: RIVERSIDE
Quad Name: LAKEVIEW
Landowner / Mgr.: RIVERSIDE COUNTY
Elevation: 1480'

Source of Coordinates (GPS, topo. map & type): T / R
Datum: NAD27 ☑ NAD83 ☐ WGS84 ☑ Horizontal Accuracy __________ meters/feet
Coordinate System: UTM Zone 10 ☑ UTM Zone 11 ☐ OR Geographic (Latitude & Longitude) ☐
Coordinates: Easting/Longitude Northing/Latitude

Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope):

Alluvial Fan Sage Scrub & non-native grasses

Other rare species?

Site Information

Overall site quality: ☑ Good ☐ Fair ☐ Poor

Current / surrounding land use:

Visible disturbances: Construction of Adjacent Retention Basin

Threats:

Comments:

Determination: (check one or more, and fill in blanks)

☐ Keyed (cite reference):
☐ Compared with specimen housed at:
☐ Compared with photo / drawing in:
☐ By another person (name):

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? ☑ Yes ☐ No
California Native Species Field Survey Form

Scientific Name: Dipodomys merriami parvus
Common Name: San Bernardino Kangaroo Rat

Species Found? Yes No ☐ ☐ ABSENT FROM AREA If not, why?

Total No. Individuals ________ Subsequent Visit? ☐ yes ☐ no ☐ no unk.
Is this an existing NDBDB occurrence? Yes, Occ. #
Collection? If yes: ________ Number ________ Museum / Herbarium

Plant Information
Phenology: % vegetative % flowering % fruiting

Animal Information
# adults # juveniles # larvae # egg masses # unknown
☐ breeding ☐ wintering ☐ burrow site ☐ rookery ☐ nesting ☐ other

Location Description (please attach map AND/OR fill out your choice of coordinates, below)

County: RIVERSIDE
Quad Name: LAKEVIEW
Landowner / Mgr.: RIVERSIDE COUNTY
Elevation: 1480'
Source of Coordinates (GPS, topo. map & type): TOPO
GPS Make & Model
Datum: NAD27 ☐ NAD83 ☐ WGS84 ☐ Horizontal Accuracy meters/feet
Coordinate System: UTM Zone 10 ☐ UTM Zone 11 ☐ OR Geographic (Latitude & Longitude) ☐
Coordinates: Easting/Longitude Northing/Latitude

Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/slope):
Alluvial fan sage scrub & non-native grasses

Other rare species?

Site Information Overall site quality: ☐ Excellent ☒ Good ☐ Fair ☐ Poor
Current / surrounding land use:
Visible disturbances: CONSTRUCTION OF ADJACENT RETENTION BASIN
Threats:
Comments:

Determination: (check one or more, and fill in blanks)
☐ Keyed (cite reference): __________________________
☐ Compared with specimen housed at: __________________________
☐ Compared with photo / drawing in: __________________________
☐ By another person (name): __________________________
☐ Other:

Photographs: (check one or more) Slide Print Digital
☐ Plant / animal ☐ Habitat ☐ Diagnostic feature
May we obtain duplicates at our expense? ☐ yes ☐ no
**California Native Species Field Survey Form**

**Scientific Name:** Cheiromys f. filix

**Common Name:** San Diego Pocket Mouse

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**Plant Information**

**Phenology:**

- Vegetative: [ ]%
- Flowering: [ ]
- Fruiting: [ ]

**Location Description (please attach map AND/OR fill out your choice of coordinates, below)**

**County:** Riverside

**Quad Name:** Lakeview

**T US R L W Sec.**

- 8
- 9 of 1/4

**Meridian:**

- WGS84

**Datum:**

- NAD83

**Source of Coordinates (GPS, topo. map & type):**

- GPS Make & Model

**Horizontal Accuracy:**

- meters/feet

**Coordinate System:**

- UTM Zone 10
- UTM Zone 11

**Geographic (Latitude & Longitude):**

- Northing/Latitude

**Habitat Description (plant communities, dominants, associates, substrates/soils, aspects/profile):**

- Alluvial Fan Sage Scrub & non-native grasses

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**Animal Information**

<table>
<thead>
<tr>
<th># adults</th>
<th># juveniles</th>
<th># larvae</th>
<th># egg masses</th>
<th># unknown</th>
</tr>
</thead>
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<table>
<thead>
<tr>
<th>breeding</th>
<th>wintering</th>
<th>burrow site</th>
<th>rookery</th>
<th>nesting</th>
<th>other</th>
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</tbody>
</table>

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**Other rare species?**

- Yes [ ]
- No [ ]

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**Site Information**

**Overall site quality:**

- Excellent [ ]
- Good [ ]
- Fair [ ]
- Poor [ ]

**Current/surrounding land use:**

**Visible disturbances:**

- Construction of Adjacent Retention Basin

**Threats:**

**Comments:**

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**Determination:**

- Keyed (site reference): [ ]
- Compared with specimen housed at: [ ]
- Compared with photo/drawing in: [ ]
- By another person (name): [ ]
- Other: [ ]

**Photographs:**

- Slide [ ]
- Print [ ]
- Digital [ ]

**May we obtain duplicates at our expense?**

- Yes [ ]
- No [ ]