

**HABITAT ASSESSMENT  
&  
BURROWING OWL BURROW SURVEY**

**LUCERNE VALLEY DESERT VIEW RANCH  
GENERATING FACILITY  
APN 0435-083-39 & 0435-132-01**

**SAN BERNARDINO COUNTY, CALIFORNIA**  
(USGS Fifteenmile Valley, CA Quad., Township 4 North, Range 2 West, Sections 10 & 15)

*Owner/Applicant*

**Silverado Power  
c/o United Engineering Group  
3595 Inland Empire Blvd., Suite 2200  
Ontario, CA 91764  
(909) 466-9240**

*Prepared by:*

**RCA Associates, LLC  
15555 Main Street, #D4-235  
Hesperia, California 92345  
Principal Investigator  
Randall C. Arnold, Jr.  
(760) 956-9212  
Report prepared by: Randall Arnold  
(760) 956-9212**

**Project No: RCA#2012-77**

**October 12, 2012  
(Date report prepared.)**

## Table of Contents

<b>Section</b>	<b>Page</b>
Executive Summary	1
1.0 Project and Property Description	2
2.0 Literature/Record Review - Burrowing Owl	7
3.0 Methodology	8
4.0 General Biological Survey Results	9
5.0 Results – Burrowing Owl	11
6.0 Impacts and Recommendations	12
7.0 Proposed Mitigation Measures	13
8.0 References	14
List of Tables	
Burrowing Owl Occurrences	
List of Figures	
Vicinity Map	
Aerial Photographs	
Site Photographs	
Appendix A – Flora and Fauna Compendia	
Certification	

## EXECUTIVE SUMMARY

The project proponent is proposing to construct a solar photovoltaic generating facility on a 358-acre parcel located in the Lucerne Valley area of San Bernardino County, with about 197-acres proposed for development. The site is located at the northwest corner and southwest corner of Desert View Road and Canyon View Road about 0.5-miles south of Highway 18 and one mile west of Joshua Road. The site supports a creosote bush community dominated by *Larrea tridentata* with co-dominants burrobush (*Franseria dumosa*) and Joshua tree (*Yucca brevifolia*).

The property is located within the known distribution of the burrowing owl (*Athene cunicularia*) and the site does support suitable habitat for the species; therefore, a Phase II survey (i.e., burrow survey) was conducted on October 8, 9, and 10, 2012. The surveys were conducted from about 0630 to 1130 hours and from about 1330 to 1630 on each survey day. The surveys were performed by Randall Arnold using the standard survey protocol for the species (i.e., ~30-meter belt transects) as required by California Department of Fish and Game (CDFG) including surveys outside of the project area for a distance of about 150 meters.

No burrowing owls were observed during the Phase II surveys and only three occupiable burrows were noted within the areas proposed for development (Figure 4). These burrows appeared to be unoccupied at the time of the survey, and there is a low probability that these burrows will be utilized by owls in the future based on the low population levels in the area. However, CDFG should be contacted to discuss the issue to determine if additional surveys (i.e., nesting season and/or winter surveys) are deemed necessary as per the survey protocol guidelines established by The California Burrowing Owl Consortium (1993). The following sections provide a discussion of the survey results.

(Note: If burrowing owls are observed on the site in the future, the owls should not be removed, harassed, or in anyway disturbed regardless of the results of this survey. To do so may constitute a violation of State and County regulations. If owls are encountered during future development activities, all activities should cease and California Department of Fish and Game (CDFG) and San Bernardino County should be notified.)

## 1.0 PROJECT AND PROPERTY DESCRIPTION

The property consists of vacant land and is about 358-acres in size (gross); however, only 197-acres will be utilized for the solar facility. It is located at the northwest corner and southwest corner of Desert View Road and Canyon View Road about 0.5-miles south of Highway 18 and one mile west of Joshua Road in San Bernardino County (Township 4 North, Range 2 West, Sections 10 & 15) (Figure 1). Elevations ranged from about 3,040 to 3,280 feet (MSL) and soils consisted of sandy loam to gravelly loam. The Fifteenmile Valley Quadrangle (1971) shows three blueline channels bisecting the site as depicted on Figure 1. The channel in the northern portion of the property within Section 15 is relatively well defined and may be utilized as a wildlife corridor. Weather conditions during the October 2012 surveys consisted of winds of 0 to 10 mph, temperatures in the low 50's °F (AM) to the mid 80's °F (PM) with 0 to 5 percent cloud coverage.

The site is surrounded by vacant lands; although, there are a few single-family dwellings within about 0.25 miles of the site. The property supports a creosote bush community (*Larrea tridentata*) with burrobush (*Franseria dumosa*) and Joshua tree (*Yucca brevifolia*) co-dominants. Dominant annuals consisted of schismus (*Schismus barbatus*) and buckwheat (*Eriogonum brachyanthum*). A wide variety of other perennials and annuals were documented during the field investigations and are discussed further in Section 4.0. The USGS quadrangle map is provided in Figure 1 and site photographs are provided in Figure 2. No site plan was available at the time this document was prepared.

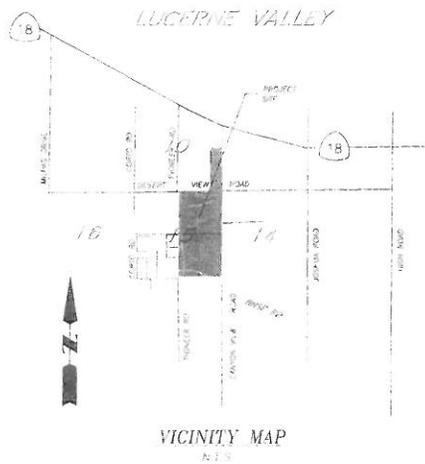
The proposed generating facility would have a generating capacity of approximately 40 megawatts alternating current (MW-AC) encompassing approximately 197-acres of the 358-acre site with the remaining 161-acres to remain as open space. No construction activities will occur within the blueline channels. The project will employ photovoltaic (PV) modules that convert sunlight directly into electrical energy without use of heat transfer fluid or cooling water. The facilities will deliver the electrical output of the project to the existing regional transmission system. The project will utilize a series of arrays of PV modules to convert solar energy directly to electrical power for export to the electrical grid. The PV modules convert the sunlight striking the modules directly into low-voltage direct current (DC) power, which is transformed to alternating current (AC) power through an inverter. The PV modules are made of a semiconductor material in which the process of converting light (photons) to electricity (voltage) allows the electrons to flow through the material to produce electricity (the PV effect).

# C.U.P.-SITE PLAN-LUCERNE VALLEY DESERT VIEW SOLAR

20 MW SOLAR PHOTOVOLTAIC SYSTEM  
 IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA  
 BEING A PORTION OF SECTIONS 10 & 15, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND  
 MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF.

UNITED ENGINEERING GROUP CA., INC MAY 2012

"OFFICIAL SEAL ONLY"



VICINITY MAP  
 N.T.S.

**BENCHMARK:**

THE BENCHMARK FOR THIS PROJECT IS THE CORNER OF SECTION 10, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF.

**LEGAL DESCRIPTION:**

THE PROJECT IS SITUATED IN THE UNINCORPORATED AREA OF THE COUNTY OF SAN BERNARDINO, CALIFORNIA, TO BE DESCRIBED AS FOLLOWS:

PARCEL 1  
 BEING THAT PORTION OF SECTION 10, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, BEING A PORTION OF THE LAND DESCRIBED IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.

PARCEL 2  
 BEING THAT PORTION OF SECTION 15, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF, BEING A PORTION OF THE LAND DESCRIBED IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.

**CURVE DATA:**

C1: R=100.00 FT, Δ=90.00°, L=157.08 FT  
 C2: R=100.00 FT, Δ=90.00°, L=157.08 FT

**SITE PLAN GRADING NOTE:**

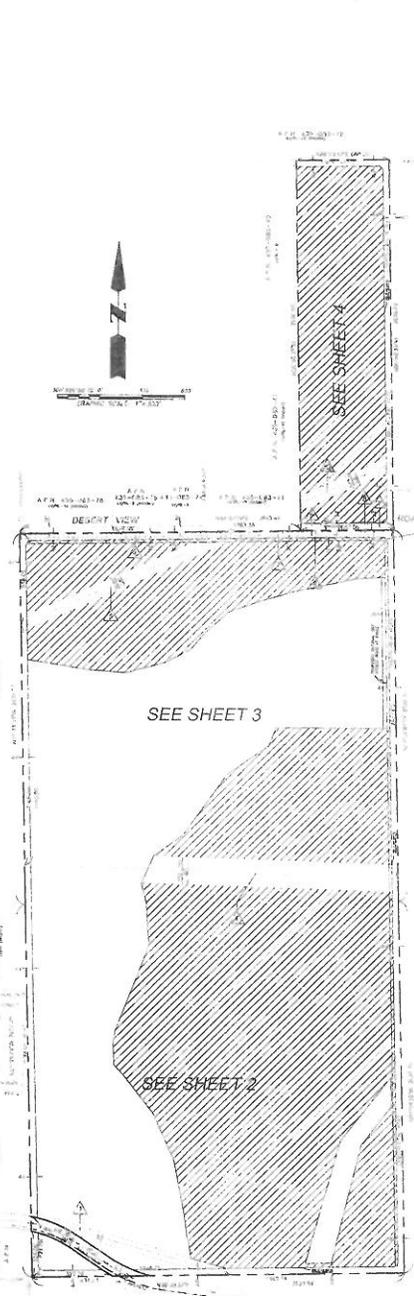
THE PROPOSED SOLAR PANELS WILL BE INSTALLED ON GRADE. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.

**FLOOD ZONE NOTE:**

THE PROJECT IS NOT LOCATED IN A FLOOD HAZARD ZONE. THE PROJECT IS NOT LOCATED IN A FLOOD HAZARD ZONE. THE PROJECT IS NOT LOCATED IN A FLOOD HAZARD ZONE.

**SURVEYOR'S NOTE:**

THE SURVEY WAS CONDUCTED ON MAY 15, 2012. THE SURVEY WAS CONDUCTED ON MAY 15, 2012. THE SURVEY WAS CONDUCTED ON MAY 15, 2012.



**EASEMENT NOTES:**

- 1. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 2. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 3. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 4. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 5. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 6. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 7. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.
- 8. THE EASEMENT FOR THE PROPOSED SOLAR PANELS IS GRANTED AS SET FORTH IN THE OFFICIAL PLAT OF THE SAN BERNARDINO COUNTY RECORDS, BOOK 10, PAGE 10000.

**GEN-TIE NOTE:**

THE PROPOSED SOLAR PANELS WILL BE INSTALLED ON GRADE. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.

**GENERAL NOTES:**

1. THE PROPOSED SOLAR PANELS WILL BE INSTALLED ON GRADE.
2. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
3. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
4. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
5. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
6. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
7. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
8. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.

**UTILITY NOTES:**

- 1. THE PROPOSED SOLAR PANELS WILL BE INSTALLED ON GRADE.
- 2. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
- 3. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
- 4. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.
- 5. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.

**LEGEND:**

- 1. PROPOSED SOLAR PANELS
- 2. PROPOSED ACCESS ROADS
- 3. EXISTING MAINTENANCE ROADS
- 4. EXISTING BRIDGE ROADS
- 5. EXISTING UTILITY LINES
- 6. EXISTING EASEMENTS
- 7. EXISTING BOUNDARIES

**OWNER:**

THE PROJECT IS OWNED BY THE COUNTY OF SAN BERNARDINO. THE PROJECT IS OWNED BY THE COUNTY OF SAN BERNARDINO. THE PROJECT IS OWNED BY THE COUNTY OF SAN BERNARDINO.

**APPLICANT:**

THE PROJECT IS APPLIED FOR BY THE COUNTY OF SAN BERNARDINO. THE PROJECT IS APPLIED FOR BY THE COUNTY OF SAN BERNARDINO. THE PROJECT IS APPLIED FOR BY THE COUNTY OF SAN BERNARDINO.

**ACCESS NOTE:**

THE PROPOSED SOLAR PANELS WILL BE INSTALLED ON GRADE. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET. THE PROPOSED ACCESS ROADS WILL BE GRADED TO A FINISH GRADE OF 1000.00 FEET.

FIGURE 1

<p>APPROVED BY: [Signature]</p> <p>DATE: [Date]</p>	<p>DESIGNED BY: [Signature]</p> <p>DATE: [Date]</p>	<p>CHECKED BY: [Signature]</p> <p>DATE: [Date]</p>	<p>PREPARED BY: [Signature]</p> <p>DATE: [Date]</p>	<p>UNITED ENGINEERING GROUP CA., INC.</p> <p>10000 LUCERNE VALLEY ROAD, SUITE 100, LUCERNE VALLEY, CA 92551</p> <p>TEL: (951) 261-1111</p> <p>FAX: (951) 261-1112</p> <p>WWW.UEG.COM</p>	<p><b>SITE PLAN</b></p> <p>LUCERNE VALLEY DESERT VIEW SOLAR</p> <p>20 MW SOLAR PHOTOVOLTAIC SYSTEM</p> <p>IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA</p> <p>BEING A PORTION OF SECTIONS 10 &amp; 15, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF.</p>	<p>SCALE: [Scale]</p> <p>DATE: [Date]</p> <p>PROJECT NAME: [Project Name]</p> <p>PROJECT NUMBER: [Project Number]</p>
---	---	--	---	--	--	---

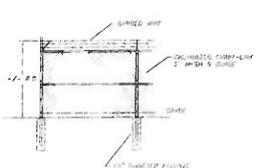
# C.U.P.-SITE PLAN-LUCERNE VALLEY DESERT VIEW SOLAR

20 MW SOLAR PHOTOVOLTAIC SYSTEM  
 IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA  
 BEING A PORTION OF SECTIONS 10 & 15, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND  
 MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF.

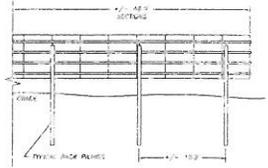
UNITED ENGINEERING GROUP CA., INC MAY 2012

"OFFICIAL USE ONLY"

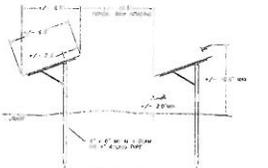
SEE SHEET 3



TYPICAL CHAIN LINK SECURITY FENCE DETAIL ELEVATION



TYPICAL SOLAR ARRAY RACK DETAIL ELEVATION



TYPICAL SOLAR ARRAY RACK DETAIL SECTION

**EASEMENT NOTES:**

- 1. ALL EASEMENTS FOR THIS PROJECT SHALL BE SUBJECT TO THE RECORDING OF THE PROJECT PLANS AND THE RECORDING OF THE PROJECT EASEMENTS.
- 2. ALL EASEMENTS FOR THIS PROJECT SHALL BE SUBJECT TO THE RECORDING OF THE PROJECT PLANS AND THE RECORDING OF THE PROJECT EASEMENTS.

**SITE PLAN GRADING NOTE:**

- 1. THE PROPOSED SOLAR ARRAY RACKS SHALL BE CONSTRUCTED ON THE EXISTING GRADE UNLESS OTHERWISE NOTED.
- 2. THE PROPOSED SOLAR ARRAY RACKS SHALL BE CONSTRUCTED ON THE EXISTING GRADE UNLESS OTHERWISE NOTED.

**CURVE DATA:**

- 1. CURVE DATA SHALL BE AS SHOWN ON THE PROJECT PLANS.
- 2. CURVE DATA SHALL BE AS SHOWN ON THE PROJECT PLANS.

**LEGEND:**

- 1. PROPOSED SOLAR PANELS
- 2. EXISTING SOLAR PANELS
- 3. PROPOSED SOLAR RACKS
- 4. EXISTING SOLAR RACKS
- 5. PROPOSED SOLAR ROWS
- 6. EXISTING SOLAR ROWS
- 7. PROPOSED SOLAR ROW SPACING
- 8. EXISTING SOLAR ROW SPACING
- 9. PROPOSED SOLAR ROW WIDTH
- 10. EXISTING SOLAR ROW WIDTH
- 11. PROPOSED SOLAR ROW LENGTH
- 12. EXISTING SOLAR ROW LENGTH
- 13. PROPOSED SOLAR ROW AREA
- 14. EXISTING SOLAR ROW AREA
- 15. PROPOSED SOLAR ROW PERIMETER
- 16. EXISTING SOLAR ROW PERIMETER
- 17. PROPOSED SOLAR ROW VOLUME
- 18. EXISTING SOLAR ROW VOLUME
- 19. PROPOSED SOLAR ROW WEIGHT
- 20. EXISTING SOLAR ROW WEIGHT

NO.	REVISIONS	DATE

PREPARED UNDER MY SUPERVISION

CHRISTOPHER F. LEITZ  
 A.C.E. No. 63501

PREPARED UNDER MY SUPERVISION

U.E.G.  
 License No. 63501

U.E.G.  
 License No. 63501

**SITE PLAN**

LUCERNE VALLEY DESERT VIEW  
 20 MW SOLAR PHOTOVOLTAIC SYSTEM  
 SAN BERNARDINO COUNTY, CALIFORNIA

PROJECT NUMBER: CA-40003

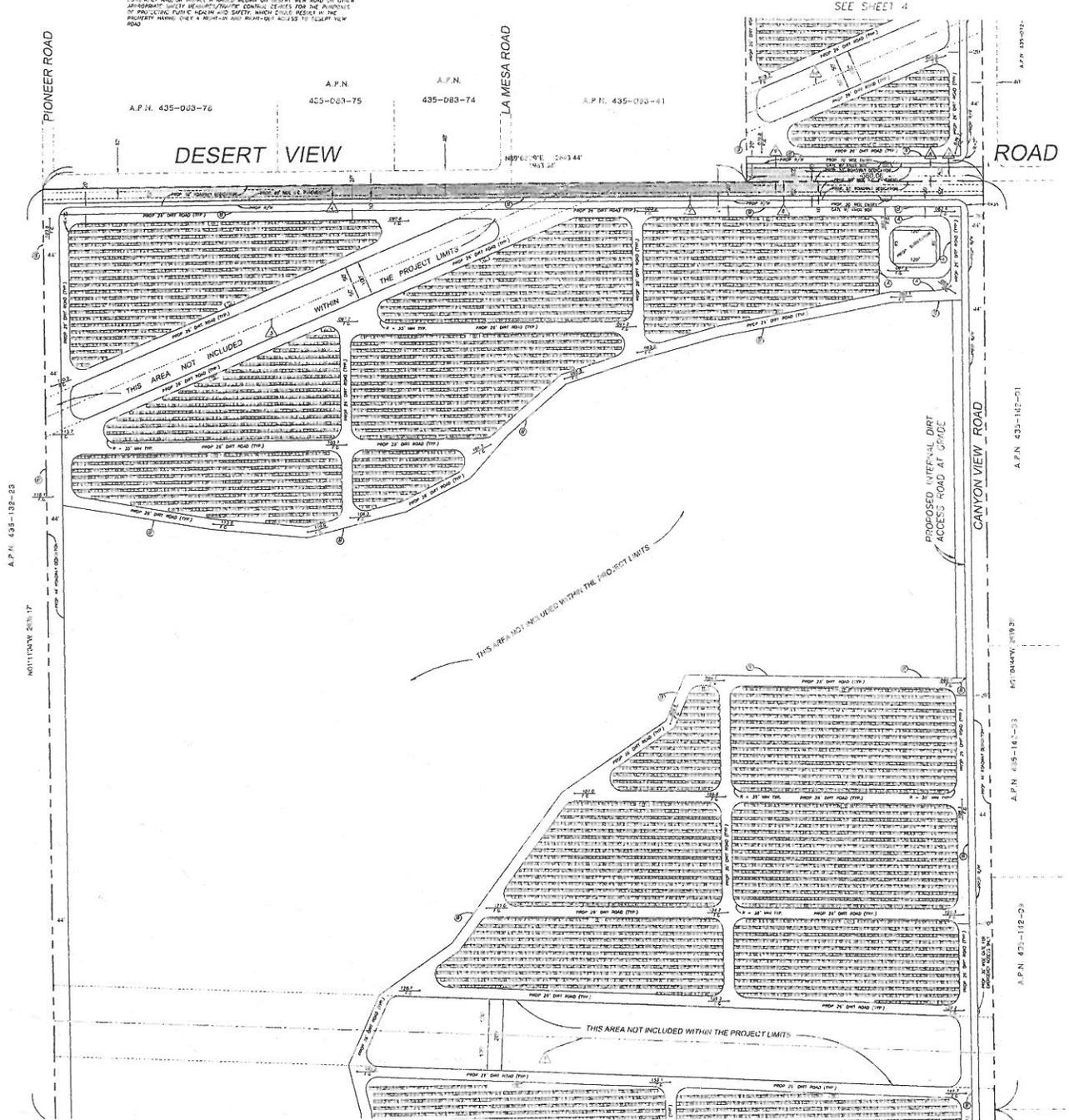
# C.U.P.-SITE PLAN-LUCERNE VALLEY DESERT VIEW SOLAR

20 MW SOLAR PHOTOVOLTAIC SYSTEM  
 IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA  
 BEING A PORTION OF SECTIONS 10 & 15, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND  
 MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF.  
 UNITED ENGINEERING GROUP CA., INC MAY 2012

OFFICIAL USE ONLY

### ACCESS NOTE:

THE PROPERTY CONTAINS TWO TEMPORARY FULL-TIME WORKER ACCESS TO DESERT VIEW ROAD. THE CLIENT REQUESTS THE ROAD IN THE CENTER OF THE PROPERTY BEING A SINGLE-ROW SOLAR VIEW ROAD ON GRADE. THE PROPERTY IS TO BE CONVEYED TO THE AGENCIES FOR THE PROJECT. THE PROPERTY OWNER HAS BEEN ADVISED OF THE ACCESS TO THE PROPERTY AND HAS AGREED TO PROVIDE ACCESS TO THE PROPERTY.



SEE SHEET 4

DESERT VIEW

ROAD

PROPOSED INTERNAL DIRT ACCESS ROAD AT GRADE

SEE SHEET 2

### EASEMENT NOTES:

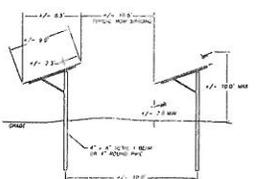
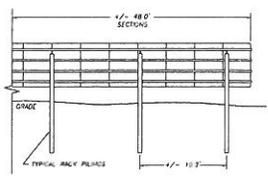
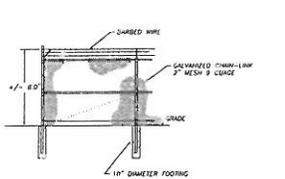
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED MAY 21, 2012 IN BOOK 1033, PAGE 418 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.
- ▲ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL HERETO AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA SOLAR ENERGY PARTNERSHIP RETURNED DECEMBER 21, 2011 IN BOOK 1210, PAGE 432 OF OFFICIAL RECORDS.

### LEGEND:

- SITE BOUNDARY
- EXISTING FENCE
- PROPOSED SOLAR PANELS
- EXISTING MAJOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED EQUIPMENT PAD
- PROPOSED INTERIOR FENCE FOR SUBSTATION ENCLOSURE
- PROPOSED INTERIOR FENCE PER DETAIL HEREIN
- PROPOSED DATE PER FIRE DEPARTMENT REQUIREMENTS
- EXISTING ELEVATION
- PROPOSED FINISH GRADE
- PROPOSED AS PAVEMENT

### SITE PLAN GRADING NOTE:

PROPOSED SITE PREPARATION WILL CONSIST OF GRADING AND CONCRETE WITH MAJOR GRADING TO ALLOW ANY ROADWAYS, HOLES OR DITCHES THAT HAVE BEEN LEFT AS PART OF THE SITE TO BE RECONSTRUCTED TO MEET THE REQUIREMENTS OF THE SITE TO A NEAR NATURAL CONDITION. NO CUT OR FILL SLOPES ARE PROPOSED WITHIN THE PROJECT LIMITS (EXCEPT FOR THE PROPOSED DIRT ACCESS).



TYPICAL CHAIN LINK SECURITY FENCE DETAIL ELEVATION

TYPICAL SOLAR ARRAY RACK DETAIL ELEVATION

TYPICAL SOLAR ARRAY RACK DETAIL SECTION

FIGURE 1, cont.

<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DESCRIPTION	DATE				<p>PREPARED UNDER MY SUPERVISION:</p> <p>CHRISTOPHER F. LENZ DATE: _____ R.C.E. No. E3001</p>	<p>PREPARED UNDER MY SUPERVISION:</p> <p>DEAN C. PHILLIPS DATE: _____ L.S. No. 6971</p>	<p><b>ueg</b>          united engineering group</p>	<p><b>SITE PLAN</b></p> <p>LUCERNE VALLEY DESERT VIEW          20 MW SOLAR PHOTOVOLTAIC SYSTEM          PORTION OF SECTIONS 10 &amp; 15, TWP 4 N., R. 2 W., S.B.P.M.          A.P.N. 435-023-76, 435-023-75, 435-023-74, 435-023-41</p>	<p>DATE PREPARED: AUG. 17, 2012</p> <p>SHEET 3 OF 4</p> <p>PROJECT NUMBER: CA-40003</p>
NO.	DESCRIPTION	DATE									

# C.U.P.-SITE PLAN-LUCERNE VALLEY DESERT VIEW SOLAR

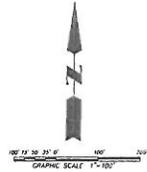
20 MW SOLAR PHOTOVOLTAIC SYSTEM

IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

BEING A PORTION OF SECTIONS 10 & 15, TOWNSHIP 4 NORTH, RANGE 2 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO THE OFFICIAL PLAT THEREOF.

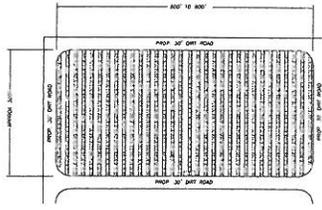
UNITED ENGINEERING GROUP CA., INC MAY 2012

OFFICIAL USE ONLY

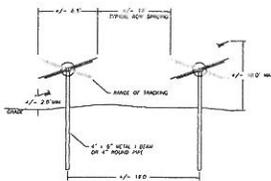


### EASEMENT NOTES:

- △ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL THEREOF AS SET FORTH IN A DOCUMENT GRANTED TO CALIFORNIA ELECTRIC POWER COMPANY RECORDED DECEMBER 21, 1916 IN BOOK 1970, PAGE 458 OF OFFICIAL RECORDS.
- △ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL THEREOF AS SET FORTH IN A DOCUMENT GRANTED TO SOUTHWEST GAS CORPORATION, A CALIFORNIA CORPORATION RECORDED DECEMBER 10, 1936 IN BOOK 4100, PAGE 356 OF OFFICIAL RECORDS.
- △ AN EASEMENT FOR UNDERGROUND TELEPHONE, TELEGRAPH AND COMMUNICATION SYSTEMS AND RIGHTS INCIDENTAL THEREOF AS SET FORTH IN A DOCUMENT GRANTED TO CONTINENTAL TELEPHONE COMPANY OF CALIFORNIA RECORDED JUNE 17, 1945 AS INSTRUMENT NO. 102-108893 OF OFFICIAL RECORDS AFFECTS THE SOUTH 10 FEET OF THE NORTH 40 FEET.
- △ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL PURPOSES AS SET FORTH IN A DOCUMENT GRANTED TO SOUTHERN CALIFORNIA POWER COMPANY RECORDED DECEMBER 6, 1927 IN BOOK 124, PAGE 212 OF RECORDS.
- △ AN EASEMENT FOR ELECTRIC LINES AND RIGHTS INCIDENTAL PURPOSES AS SET FORTH IN A DOCUMENT GRANTED TO SOUTHERN CALIFORNIA POWER COMPANY RECORDED DECEMBER 6, 1927 IN BOOK 124, PAGE 212 OF RECORDS.
- △ AN EASEMENT FOR POLE LINES AND RIGHTS INCIDENTAL PURPOSES AS SET FORTH IN A DOCUMENT GRANTED TO SOUTHERN CALIFORNIA POWER COMPANY RECORDED MARCH 13, 1922 AS INSTRUMENT NO. 92-108553 OF OFFICIAL RECORDS.
- △ AN EASEMENT FOR RIGHT OF WAY AS SET FORTH IN A DOCUMENT GRANTED TO SOUTHERN CALIFORNIA GAS COMPANY OF CALIFORNIA RECORDED JANUARY 6, 1939 IN BOOK 4897, PAGE 136 OF OFFICIAL RECORDS.



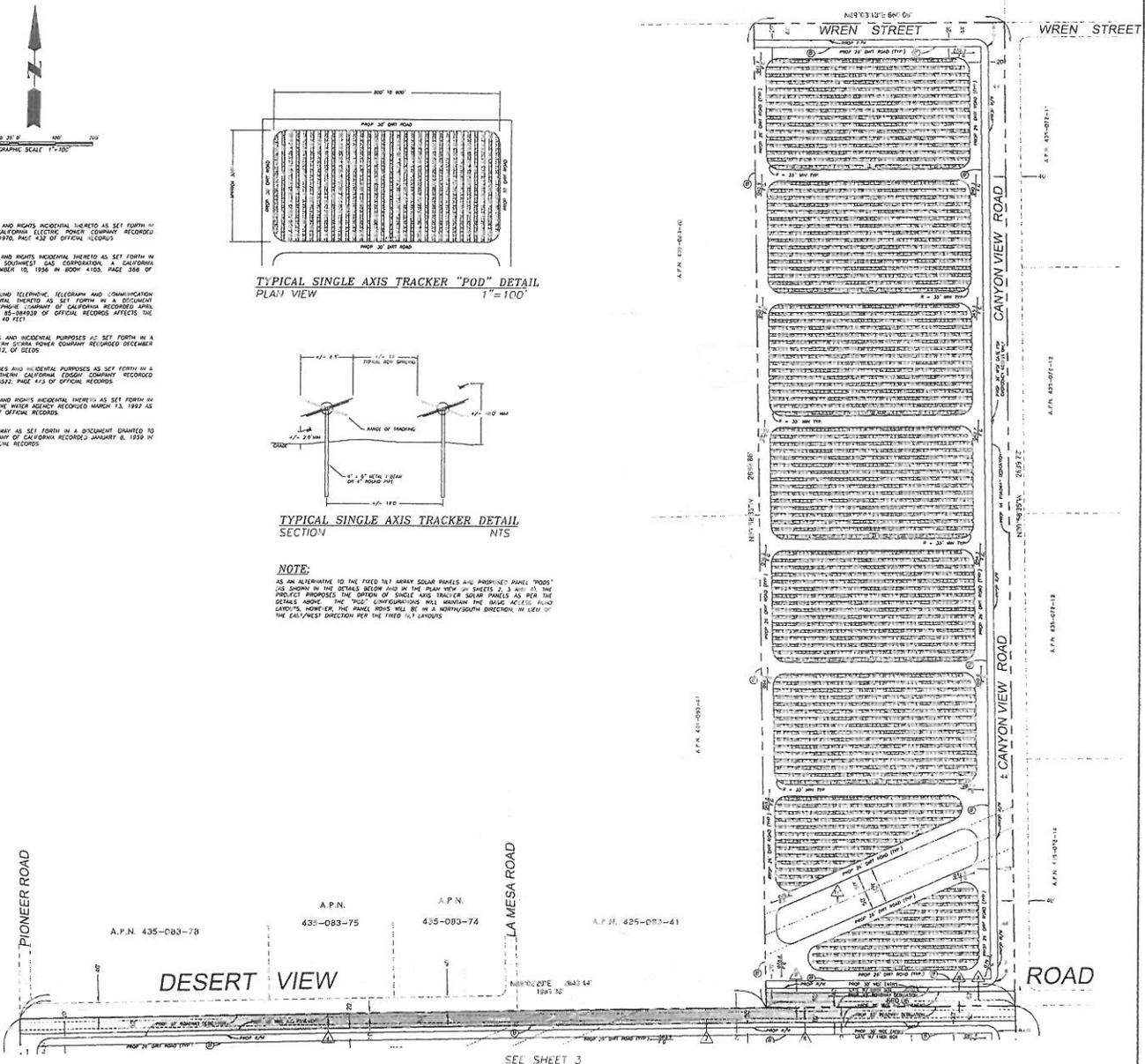
TYPICAL SINGLE AXIS TRACKER "POD" DETAIL  
PLAN VIEW  
1" = 100'



TYPICAL SINGLE AXIS TRACKER DETAIL  
SECTION  
NTS

### NOTE:

AS AN ALTERNATIVE TO THE FIXED TILT ARRAY SOLAR PANELS AND PROPOSED PANEL "PODS" USE SHOWN IN THE DETAILS BELOW AND IN THE PLAN VIEW OF SHEETS 2, 3, AND 4, THE PROJECT PROPOSES THE OPTION OF SINGLE AXIS TRACKER SOLAR PANELS AS PER THE DETAILS ABOVE. THE "POD" CONFIGURATIONS WILL MAINTAIN THE BASIC ACCESS ROAD LAYOUTS, HOWEVER, THE TRACKING ROWS WILL BE IN A NORTH/SOUTH DIRECTION IN VIEW OF THE EAST/WEST DIRECTION PER THE FIXED TILT LAYOUTS.



SEE SHEET 3

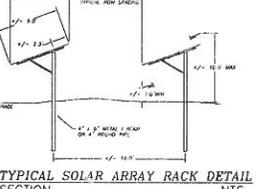
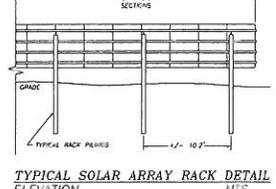
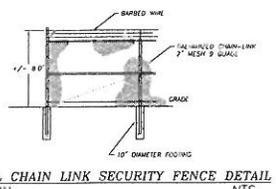
- ### LEGEND:
- SITE BOUNDARY
  - EXISTING FENCE
  - PROPOSED FENCE
  - PROPOSED SOLAR PANELS
  - EXISTING MAJOR CONTOUR
  - EXISTING MINOR CONTOUR
  - ⊙ PROPOSED EQUIPMENT PAD
  - ⊙ PROPOSED INTERIOR FENCE FOR SUBSTATION ENCLOSURE
  - ⊙ PROPOSED PERIMETER FENCE FOR DETAIL HEREIN
  - ⊙ PROPOSED SITE PERIMETER FENCE PER DETAIL HEREIN
  - ⊙ EXISTING EASEMENTS
  - ⊙ PROPOSED 10' MIN. DRIVE
  - ⊙ PROPOSED AC (PHASE) PAD

### ACCESS NOTE:

FOR UNDERLAYER ROAD BOUNDARY ALL EXISTING AND PROPOSED ACCESS TO OVERLAY NEW ROAD. THE COUNTY RESERVES THE RIGHT TO THE EXISTING OR PROPOSED ROAD. A BARRIER BEYOND THE DESERT VIEW ROAD FOR FENCES COMPROMISED BY ACCESS TO THE ROAD. CONSTRUCTION OF PROTECTIVE FENCE NEAR AND SOUTH BOUNDARY SHALL BE IN ACCORDANCE WITH THE COUNTY ENGINEER'S REVIEW AND RIGHT-OF-WAY ACCESS TO NEIGHBORING ROAD.

### SITE PLAN GRADING NOTE:

PROPOSED SITE PREPARATION WILL CONSIST OF CLEARING GRASS AND SCAMPING WITH ANGRU GRADING TO REMOVE ANY BARRIERS, POLES OR OBSTACLES THAT HAVE BEEN LEFT AS PART OF THE PREVIOUS AGRICULTURAL USE. THE INTENT IS TO CLEAR AND GRADEN THE SITE TO A NEAR NATURAL CONDITION AND FOR THE SLOPES ARE PROPOSED WITHIN THE "PROJECT LIMITS" EXCEPT FOR THE PROPOSED DRIVEWAY ACCESS.



NO.	REVISIONS	DATE



PREPARED UNDER MY SUPERVISION  
CHRISTOPHER F. LENZ  
R.C.E. No. 53061



PREPARED UNDER MY SUPERVISION  
DEAN C. PHILLIPS  
L.S. No. 6974



DATE PREPARED  
AUG. 17, 2012  
SHEET 4 OF 4  
PROJECT NUMBER  
CA-40003

**SITE PLAN**  
LUCERNE VALLEY DESERT VIEW  
20 MW SOLAR PHOTOVOLTAIC SYSTEM  
FURNISHING SECTIONS 10 & 15, TWP. 4 N., R. 2 W., S. 40 N.  
A.P. 435-083-78, 435-083-75, 435-083-74, 425-083-41

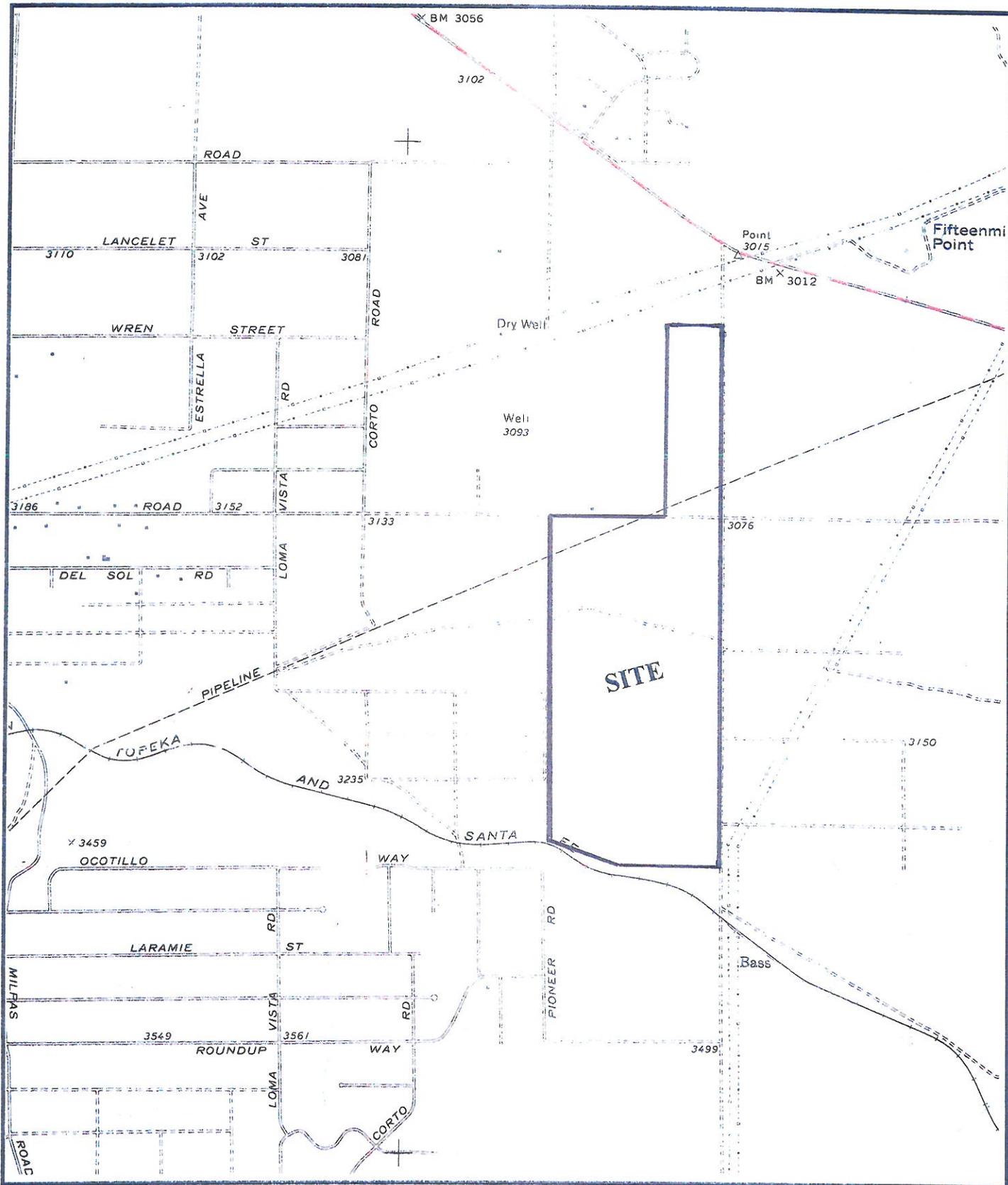


FIGURE 2

PROPERTY LOCATION  
 (Lucerne Valley Desert View Ranch Generating Facility)  
 (Source: USGS Fifteenmile Valley, CA Quad., 1971)





PHOTO POINT #1 - LOOKING SOUTH



PHOTO POINT #2 - LOOKING NORTH

FIGURE 2  
LUCERNE VALLEY DESERT VIEW RANCH GENERATING FACILITY  
(APN 0435-083-39 & 0435-132-01)



PHOTO POINT #3 - LOOKING SOUTHEAST



PHOTO POINT #4 - LOOKING SOUTHWEST

FIGURE 2, cont.  
LUCERNE VALLEY DESERT VIEW RANCH GENERATING FACILITY  
(APN 0435-083-39 & 0435-132-01)

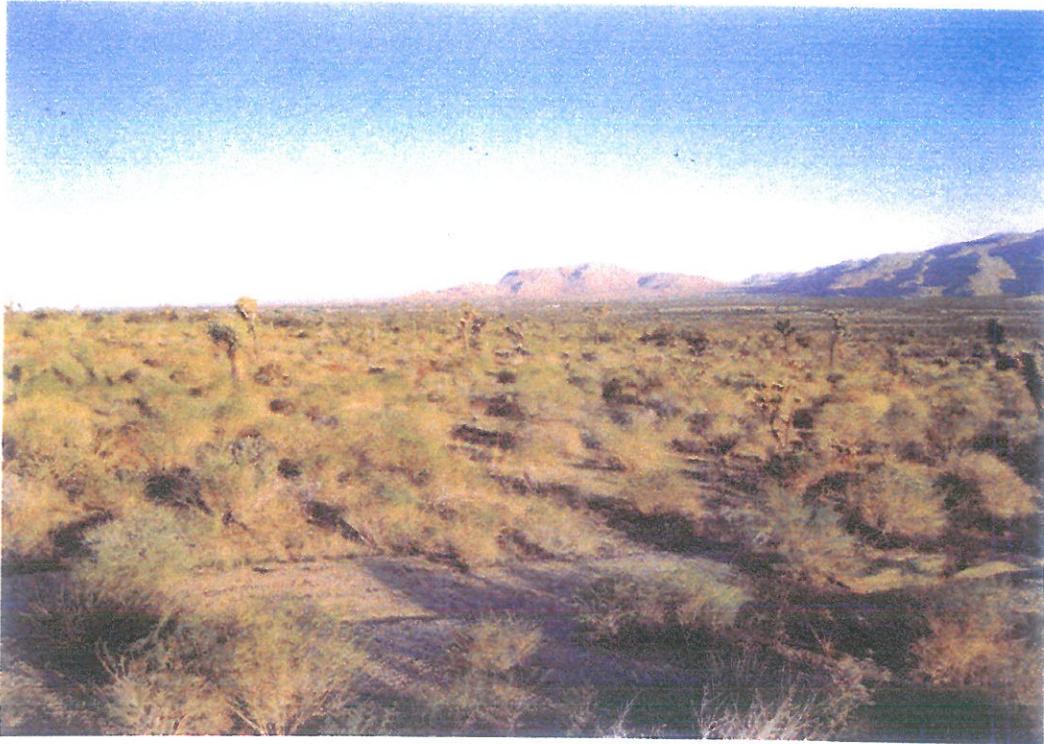


PHOTO POINT #5 - LOOKING NORTHWEST



PHOTO POINT #6 - LOOKING NORTHEAST

FIGURE 2, cont.  
LUCERNE VALLEY DESERT VIEW RANCH GENERATING FACILITY  
(APN 0435-083-39 & 0435-132-01)

## 2.0 LITERATURE/RECORD REVIEW - BURROWING OWL

As part of the environmental process, California Department of Fish and Game (CDFG) and U.S. Fish and Wildlife Service (USFWS) data sources were reviewed prior to initiation of field surveys to determine if burrowing owls have been documented on the site or in the area surrounding the property. Based on the literature review and evaluation of the CNDDDB database for the area, it was determined that the site is located within the general distribution of the burrowing owl. However, populations of owls have not been identified in the immediate surrounding area according to CNDDDB (2012). The nearest documented owl populations are about 5.5 miles west of the site (Occurrence #924) and about 7.5 miles west of the site (Occurrence #755) according to CNDDDB (2012).

The burrowing owl is a year-long resident of open, dry grassland and desert habitats. The species was formerly common throughout central and southern California; however, the species has seen a significant reduction over the last few decades due to development activities; farming activities, predation by dogs and cats, and habitat destruction (Zeiner 1990). Conversions of grassland and desert habitats to agricultural fields and residential developments have contributed to the greatest amount of habitat destruction in recent decades. The reduction in population levels was noted as early as the 1940s. Burrowing owls primarily prey upon insects; although, small mammals, lizards, birds, and carrion make up a portion of the owl's diet (Zeiner 1990). Burrowing owls typically utilize abandoned rodent burrows for roosting and nesting.

### 3.0 METHODOLOGY

A Phase I survey was conducted for burrowing owls by Randall Arnold on October 8, 2012 to determine if suitable habitat was present on the site. Burrowing owls are typically found in a wide variety of habitats including disturbed grassland and agricultural areas. It was determined that the site does provide suitable habitat for the species; therefore, a Phase II survey was conducted on October 8, 9, and 10, 2012 to determine if any owls or occupiable burrows were present on the site. As required by survey protocol, 30 meter, parallel belt transects were walked in a north-south direction until the property had been checked for owls and/or owl sign (burrows, tracks, scats, etc.). The survey protocol also requires that zone of influence (ZOI) surveys be conducted in the surrounding area out to a distance of 500-feet; therefore, ZOI surveys were performed where possible in adjacent areas. All transects were walked at a pace that allowed careful observations along the transect routes and in the immediate vicinity. Field notes were recorded regarding native plant assemblages, wildlife sign, and human affects in order to determine the presence or absence of suitable owl habitat. Surveys were performed on each survey day from about 0630 to about 1130 hours and from 1300 to 1430 hours.

Phase I and Phase II surveys combined with identification of the habitat on the site and in the surrounding area will provide data on the potential presence or absence of burrowing owls. Temperatures during the October survey were in the low 50's (AM) to mid 80's (PM) (°F), wind speeds of about 0 to 5 mph, and cloud coverage of 0 to 5 percent. No precipitation was recorded during the survey.

#### **Limitations:**

The results of this report do not constitute authorization for the "take" of burrowing owls or any other listed or sensitive wildlife species. The authorization to impact the burrowing owl can only be granted by CDFG. If owls are observed during future project activities, project activities should cease immediately and CDFG and San Bernardino County should be contacted to discuss mitigation measures which may be required for the species.

#### 4.0 GENERAL BIOLOGICAL SURVEY RESULTS

The site supports a relatively undisturbed creosote bush community dominated by *Larrea tridentata* (Figures 3 and 4). Co-dominants included burrobush (*Franseria dumosa*) and Joshua tree (*Yucca brevifolia*). A wide variety of other perennials were observed and some of the more common species included cholla (*Opuntia ramosissima* and *O. biglovia*), Mojave yucca (*Yucca schidigera*), cheesebush (*Hymenoclea salsola*), paperbag plant (*Salazaria mexicana*), ephedra (*Ephedra nevadensis*), lycium (*Lycium cooperi*), Indian ricegrass (*Achnatherum hymenoides*), buckwheat (*Eriogonum fasciculatum*), spiny hop-sage (*Grayia spinosa*), and winterfat (*Kraschenokovia lanata*). Dominant annuals included schismus (*Schismus barbatus*), yellow buckwheat (*Eriogonum brachyanthum*), vinegar weed (*Lessingia germanorum ramulosissima*), and desert trumpet (*Eriogonum inflatum*). All of the perennials and annuals listed above were relatively common and were evenly distributed throughout the site. None of the above species were confined to any one specific area. Most of the perennial shrubs ranged in height from about two to six feet and the Joshua trees ranged in size from 1 to 25 feet. Table 1 provides a compendium of all perennials and annuals observed on the property (Appendix A).

Wildlife species were identified during the field investigations conducted on October 8, 9, & 10, 2012 from about 0630 to 1430 hours. Birds identified included sage sparrows (*Amphispiza belli*), mourning doves (*Zenaida macroura*), ravens (*Corvus corax*), and western kingbirds (*Tyrannus verticalis*). A few side-blotched lizards (*Uta stansburiana*) and western whiptail lizards (*Cnemidophorus tigris*) were the only live reptiles observed during the field investigations. Antelope ground squirrels (*Ammospermophilus leucurus*), desert cottontail rabbits (*Sylvilagus auduboni*), jackrabbits (*Lepus californicus*), and desert woodrats (*Neotoma lepida*) were the only mammals seen during the field investigations. However, Merriam's kangaroo rats (*Dipodomys merriami*) may also be present on the site given the presence of numerous small mammal burrows observed throughout the property.

The large desert wash located in the northern portion of the site, which is relatively well defined and extends off-site to the east and west for several miles, may act as a wildlife corridor for both small and large mammals (Figure 1). No breeding activities were observed among any of the wildlife species during the October 2012 field investigations. Table 2 (Appendix A) provides a compendium of wildlife species observed on the site and other species known to occur in the region.

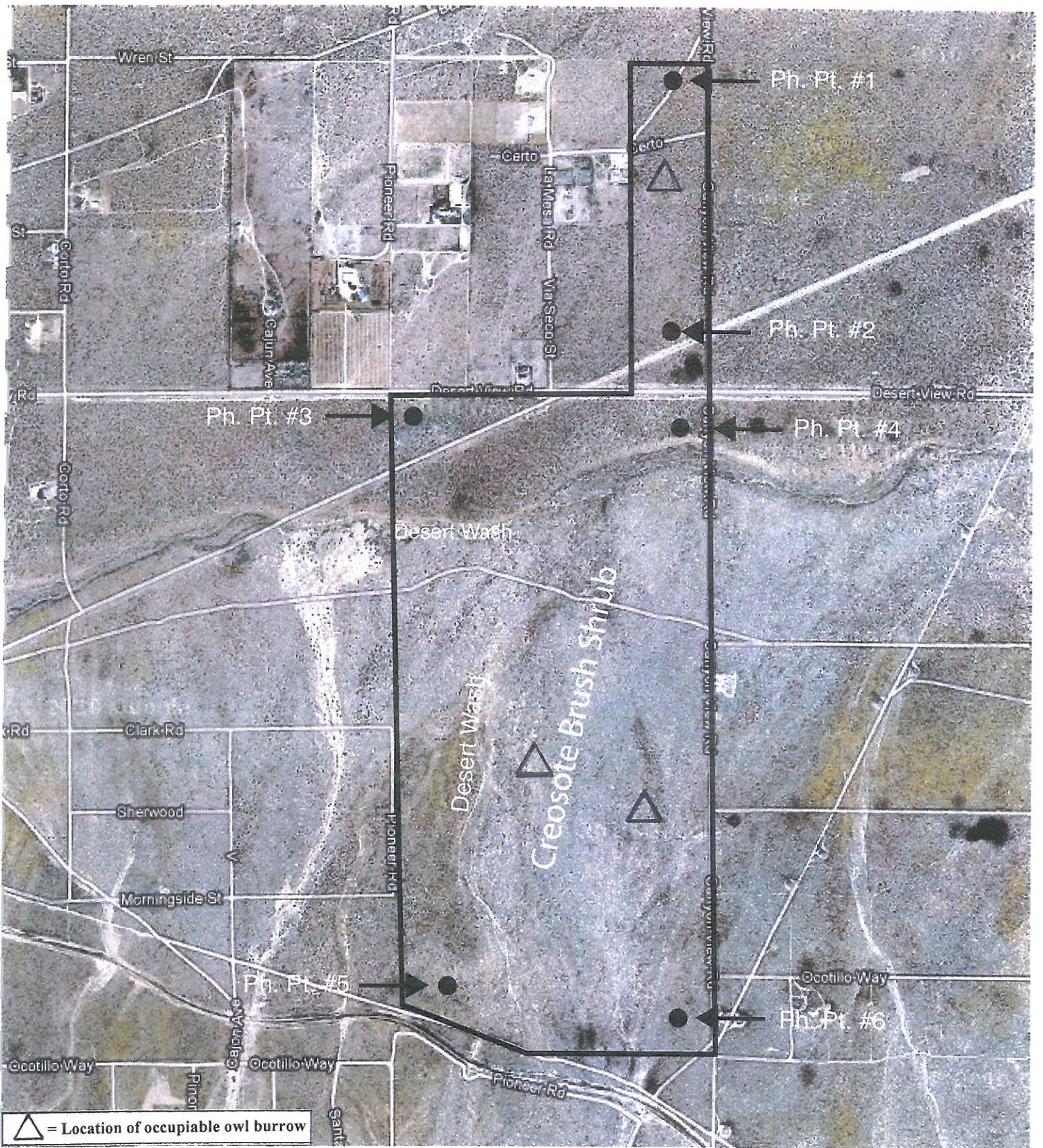


FIGURE 4  
 BIOLOGICAL RESOURCES MAP  
 (LUCERNE VALLEY DESERT VIEW RANCH GENERATING FACILITY)  
 (APN 0435-083-39 & 0435-132-01)

## **5.0 RESULTS – BURROWING OWL**

The site supports suitable habitat for burrowing owls based on the results of the Phase I surveys. Three occupiable burrows were also identified during the Phase II surveys and the approximate location of these burrows is depicted in Figure 4. Additional surveys (nesting season and winter surveys) are typically required if occupiable burrows are present on a site; however, CDFG should be contacted to discuss the results of the surveys. Based on the absence of any documented populations in the immediate area and the presence of only three burrows, it is the opinion of RCA Associates LLC that owls are unlikely to occur on the site in the future and nesting season and winter surveys may not be necessary.

## **6.0 IMPACTS AND RECOMMENDATIONS**

Construction of the proposed solar project is not expected to have any direct or indirect impacts on burrowing owls or occupied habitat based on the results of the Phase I and Phase II surveys. No additional investigations are recommended at this time; however, CDFG should be contacted to discuss the results of the survey and to evaluate the need for any additional surveys during the nesting season (April 15 – July 15) and the winter months (December 1 – January 31). In addition, CDFG and the County may require the proponent to conduct a 30-day pre-construction survey immediately prior to the start of future construction activities. The pre-construction survey may be required to determine if any owls have moved onto the site since the October 2012 surveys.

## **7.0 PROPOSED MITIGATION MEASURES**

The site does not support any burrowing owls at the present time. However, if owls are observed on the site during future construction activities, CDFG and the County should be contacted to discuss mitigations which may be required. CDFG is the only agency which can grant authorization for the “take” of any sensitive species, including the burrowing owl.

## 8.0 REFERENCES

- Baldwin, Bruce G, et. al.  
2002. The Jepson Desert Manual. Vascular Plants of Southeastern California. University of California Press, Berkeley, CA.
- California Burrowing Owl Consortium  
April 1993. Burrowing Owl Survey Protocol and Mitigation Guidelines
- California Department of Fish and Game  
1990. California Wildlife: Volume 1 (Amphibians and Reptiles), Volume II (Birds), and Volume III (Mammals).
- California Department of Fish and Game  
1995. Staff Report on Burrowing Owl Mitigation.
- California Department of Fish and Game  
1990 California's Wildlife, Volumes 1, 2, and 3. Sacramento.
- California Department of Fish and Game  
2012 Natural Diversity Data Base. Sacramento
- Ehrlich, P., Dobkin., Wheye, D.  
Birder's Handbook. A Field Guide to the Natural History of North American Birds. Simon & Schuster Building Rockefeller Center 1230 Avenue of the Americas. New York, New York 10020.
- Hickman, James C.  
The Jepson Manual Higher Plants of California. University of California Press. Berkeley, CA. 3rd Edition. 1996.
- Munz, Philip A.  
1974. A Flora of Southern California. University of California Press, Berkeley, California. 1086 pp.
- Sibley, David Allen.  
National Audubon Society. The Sibley guide to Birds. Alfred A Knopf, Inc. 2000.
- Stebbins, Robert C.  
A Field Guide to Western Reptiles and Amphibians. Houghton Mifflin Company. 2003.

**TABLES**

**Burrowing Owl Occurrences**

**Burrowing Owl occurrences within 5 miles of the site based on California Diversity Data Base (2012). (SC = Species of special concern)**

Name	Listing Status	Habitat Requirements	Presence/Absence	Comments
Burrowing owl <i>(Athene cunicularia)</i>	CDFG: SC	Various: desert scrub, agricultural lands, disturbed areas	Site support very marginal habitat.	<p>A. Occurrence #924; 5.5 miles west of site.</p> <p>B. Occurrence #755; 7.5-miles west of site.</p>

**FIGURES**

**Vicinity Map**

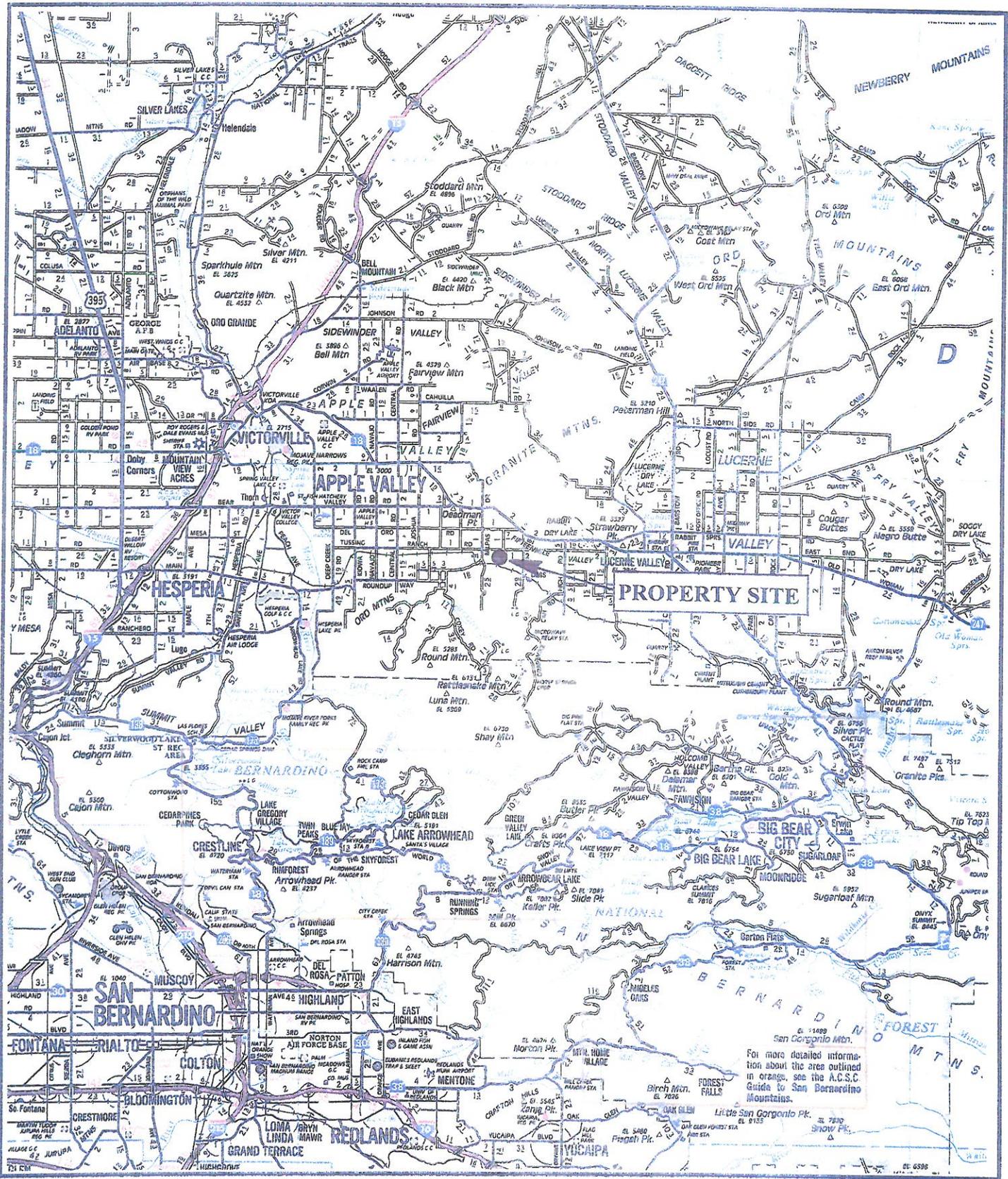


FIGURE 5

VICINITY MAP  
 (Source: ACSC Map Source, 2011)  
 (Lucerne Valley Desert View Ranch Generating Facility)



**SITE PHOTOGRAPHS**

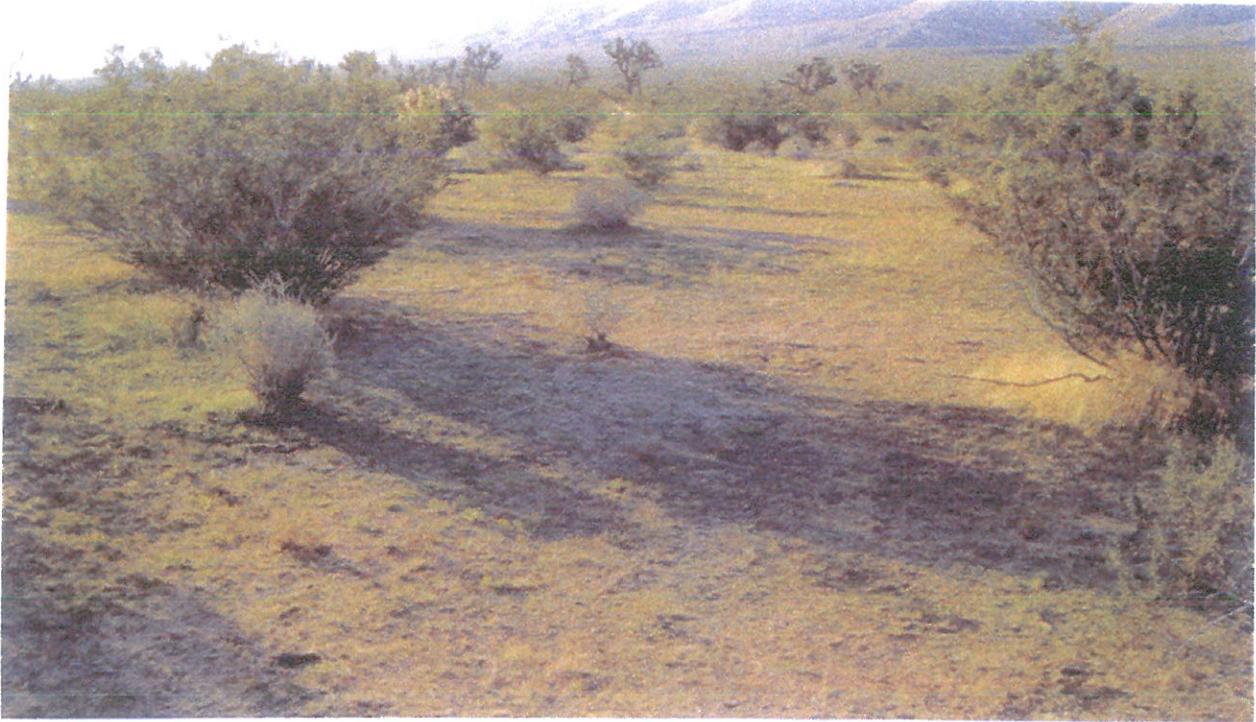


**VIEW FROM NORTHEAST CORNER LOOKING SOUTHWEST**



**VIEW FROM SOUTHEAST CORNER LOOKING NORTHWEST**

**PHOTOGRAPHS OF SITE**  
**(Lucerne Valley Desert View Ranch Generating Facility)**



**VIEW FROM NORTHWEST CORNER LOOKING SOUTHEAST**



**VIEW FROM SOUTHWEST CORNER LOOKING NORTHEAST**

**PHOTOGRAPHS OF SITE  
(Lucerne Valley Desert View Ranch Generating Facility)**

**APPENDIX A**

**Flora and Fauna Compendia**

**Table 1 - Plants observed on the site. (The following list is based on surveys conducted in September 2011 and October 2012.)**

<u>Common Name</u>	<u>Scientific Name</u>	<u>Location</u>
Creosote bush	<i>Larrea tridentata</i>	On-site and off-site
Joshua tree	<i>Yucca brevifolia</i>	“
Burrobush	<i>Franseria dumosa</i>	“
Cottonthorn	<i>Tertadymia spinosa</i>	“
Cholla	<i>Opuntia biglovia</i>	“
Pencil cholla	<i>Opuntia ramosissima</i>	“
Calico cactus	<i>Echonocereus Englemannii</i>	“
Spanish dagger	<i>Yucca schidigera</i>	“
Whipple Yucca	<i>Yucca whipplei</i>	“
Cheesebush	<i>Hymenoclea salsola</i>	“
Ephedra	<i>Ephedra nevadensis</i>	“
Paperbag plant	<i>Salazaria mexicana</i>	“
Spiny hop-sage	<i>Grayia spinosa</i>	“
Winterfat	<i>Kraschenokovia lanata</i>	“
Desert sage	<i>Salvia dorii</i>	“
Lycium	<i>Lycium andersonii</i>	“
Fremont thornbush	<i>Lycium fremontii</i>	“
Fiddleneck	<i>Amsinckia tessellata</i>	“
Indian bunchgrass	<i>Achnatherum hymenoides</i>	“
Rubberbrush	<i>Chrysothamnus teretifolius</i>	“
Saltbush	<i>Atriplex canescens</i>	“
Buckwheat	<i>E. fasciculatum</i>	“
Desert almond	<i>Prunus fasciculata</i>	“
Flat-top buckwheat	<i>Eriogonum plumatella</i>	“
Desert straw	<i>Stephanomeria pauciflora</i>	“
Sandpaper plant	<i>Petalonyx thurberi</i>	“
Desert aster	<i>Aster abatus</i>	“
Acton encelia	<i>Encelia actoni</i>	“
Spiked tristetum	<i>Trisetum spicatum</i>	“
Fringed amaranthus	<i>Amaranthus fimbriatus</i>	“
Desert gilia	<i>Gilia eremica</i>	“
Desert trumpet	<i>Eriogonum inflatum</i>	“
Vinegar weed	<i>Lessingia germanorum</i>	“
Burweed	<i>Franseria acanthicarpa</i>	“
Thistle sage	<i>Salvia carduacea</i>	“
Brittle spineflower	<i>Chrorizante brevicornus</i>	“
Yellow buckwheat	<i>Eriogonum brachyamthum</i>	“
Sonoran sandmat	<i>Euphorbia micromera</i>	“
Jimpson weed	<i>Datura meloides</i>	“

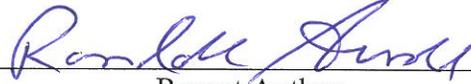
**Table 2 - Wildlife observed on the site and those species expected to occur in surrounding area.**

<u>Common Name</u>	<u>Scientific Name</u>	<u>Location</u>
Common raven	<i>Corvus corax</i>	Observed on-site
Sage sparrow	<i>Amphispiza belli</i>	“
Morning dove	<i>Zenaida macroura</i>	“
Western kingbird	<i>Tyrannus verticalis</i>	“
Western whiptail lizard	<i>Cnemidophorus tigris</i>	“
Side-blotched lizard	<i>Uta stansburiana</i>	“
Antelope ground squirrel	<i>Ammospermophilus leucurus</i>	“
Desert cottontail rabbit	<i>Sylvilagus audubonii</i>	“
Jackrabbit	<i>Lepus californicus</i>	“
Desert woodrat	<i>Neotoma lepida</i>	“
Coyote	<i>Canis latrans</i>	“
Desert spiny lizard	<i>Sceloporus magister</i>	Known to occur in area.
California ground squirrel	<i>Spermophilus beecheyi</i>	“
Merriam’s kangaroo rat	<i>Dipodomys mohavensis</i>	“

Note: The above Tables are not comprehensive lists of every plant or animal species which may occur in the area, but are a list of those common species which have been identified on the site or in the region by biologists from RCA Associates, LLC, or which are common species in the region.

## CERTIFICATION

I hereby certify that the statements furnished above and in the attached exhibits, present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge and belief. Fieldwork conducted for this assessment was performed by me or under my direct supervision. I certify that I have not signed a non-disclosure or consultant confidentiality agreement with the project applicant or applicant's representative and that I have no financial interest in the project.

Date: 10-12-2012 Signed:   
Report Author

Field Work Performed By: Randall Arnold  
Senior Biologist