

APPENDIX F SUMMER/FALL PLANT REPORT

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**2012
Special-Status Summer Annual Plant
Survey Report**

**Blythe Solar Power Project
Riverside County, CA**

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EXECUTIVE SUMMARY

NextEra Blythe Solar Energy Center, LLC (NextEra Blythe), a wholly-owned subsidiary of NextEra Energy Resources, LLC, proposes to construct, operate, maintain, and decommission a photovoltaic (PV) solar energy generating facility, the Blythe Solar Power Project (BSPP or Project), on Bureau of Land Management (BLM)-administered land in unincorporated Riverside County, California. The BSPP was fully permitted as a solar thermal facility in September 2010 by Solar Trust of America (STA); NextEra Blythe acquired the BSPP permits and Right-of-Way (ROW) Grant in July 2012. The Project includes the 7,162-acre solar plant site, plus linear facilities (generation-tie line [gen-tie], access road, primary and secondary telecommunication lines, and distribution line), for a total Project Area of 7,345 acres.

Surveys were conducted in August and September 2012 to determine the presence, distribution, and approximate abundance of special-status summer annual plants (plants that germinate in late summer or early fall in response to summer rains). Although the Project was fully approved and permitted in 2010 and began construction in 2011, these surveys were conducted because there was insufficient rainfall to trigger germination at the time STA conducted plant surveys in Fall 2010 to comply with California Energy Commission's (CEC) Condition of Certification (COC) BIO-19. The surveys documented in this report supplement the comprehensive surveys for all special-status biological resources and their habitats that were conducted of the Project and surrounding area in 2009 and 2010 by STA's biological consultants (see EDAW AECOM 2009 and AECOM 2010).

At the time the surveys documented in this report were conducted, NextEra Blythe was still in the process of refining/reducing the Project footprint. To ensure that all potential areas within the Project footprint would be captured, the entire STA project footprint (for the 1,000-MW thermal solar project) was surveyed.

Surveyors did not find any federally or state-threatened, endangered, or candidate plant species during surveys. However, surveyors did observe two special-status plants within the Survey Area:

- Abrams' spurge (*Euphorbia* (= *Chamaesyce*) *abramsiana*) California Natural Diversity Database [CNDDDB] G4/S2S3; California Native Plant Society [CNPS] Rare Plant Rank 2.2.
- Desert unicorn plant (*Proboscidea althaeifolia*): CNDDDB G5/S3.3; CNPS Rare Plant Rank 4.

More than 2,270 Abrams' spurge plants were observed in the northwest quarter of the solar plant site. These plants are part of a population that extends north for at least two miles beyond the Project. An extensive population of 85+ individuals was observed south of Interstate 10 (I-10) along the linear facilities. Outside of the Project Area, over 14,000 plants were observed along the north side of Black Rock Road, north of I-10. This species' rarity ranking is most likely a product of undersampling and survey observations indicate that this species is more widespread and common than originally thought.

Surveyors observed 1,687 desert unicorn plants within the Survey Area, primarily in runnels and swales that held water for a short time. This species was common and evenly distributed throughout the Project Area with the exception of the far west portion of the solar plant site and sand dunes and sheets south of I-10. Observations were considered part of the same

population that extends north and east where plants can be found in suitable habitat. As a CNPS Rare Plant Rank 4, it requires California Environmental Quality Act (CEQA) consideration only if the population has local or regional significance (California Department of Fish and Game [CDFG] 2009). Based on the abundance and distribution within the BSPP and nearby areas, the BSPP population is not considered locally or regionally significant.

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1.0 INTRODUCTION

NextEra Blythe Solar Energy Center, LLC (NextEra Blythe), a wholly-owned subsidiary of NextEra Energy Resources, LLC, proposes to construct and operate the Blythe Solar Power Project (BSPP or Project), a photovoltaic (PV) solar energy generating facility on Bureau of Land Management (BLM)-administered land in unincorporated Riverside County, California. The BSPP was fully permitted as a solar thermal facility in September 2010 by Solar Trust of America (STA); NextEra Blythe acquired the BSPP permits and Right-of-Way (ROW) Grant in July 2012. The Project included a 7,162-acre solar plant site plus linear facilities (generation-tie line [gen-tie], access road, primary and secondary telecommunication lines, and distribution line), for a total Project Area of 7,345 acres.

This report presents the result of surveys conducted in August 2012 to determine the presence, distribution, and approximate abundance of special-status summer annual plants (plants that germinate in late summer or early fall in response to summer rains). These surveys supplement the comprehensive surveys for spring special-status plants and other biological resources and their habitats that were conducted of the Project Area and surrounding area in 2009 and 2010 by STA's biological consultants (see EDAW AECOM 2009 and AECOM 2010). Although the Project was fully approved and permitted in 2010 and began construction in 2011, these surveys were conducted to comply with the California Energy Commission's (CEC) Condition of Certification (COC) BIO-19 because, due to negligible precipitation in 2010, AECOM was unable to conduct a full survey for fall-growing herbaceous species (Graham 2010).

2.0 PROJECT LOCATION AND ENVIRONMENTAL SETTING

A detailed description of site characteristics with photographs can be found in the earlier biological resources technical reports (EDAW AECOM 2009; AECOM 2010). However, the following provides a brief summary of the salient features of the Project's habitats (both natural and altered) and vegetation communities.

The Project is located in the Sonoran Desert approximately eight miles northwest of the City of Blythe, California (Figure 1). Surrounding mountain ranges include the McCoy Mountains to the west, the Little Maria Mountains to the north, and the Big Maria Mountains to the northeast. McCoy Wash, a broad wash system flowing into Palo Verde Valley, is located northeast of the Project. Elevations range from 400 to 700 feet above mean sea level.

North of I-10, the Project Area lies along the bajada sloping out of the eastern side of the McCoy Mountains. The western portion of the solar plant site is dominated by gently undulating terrain, with many scattered, often broad, patches of largely unvegetated gravel desert pavement. The eastern part of the solar plant site is relatively flat and characterized by generally finer soils than to the west, although some patches of fine gravel- and coarse gravel-desert pavement are present. Both shrubby and arboreal washes cross the site, with sheet flow areas in the east.

The dominant plant community on the Project Area is characterized by associations (i.e., subsets) of the Creosote Bush-White Burr Sage (*Larrea tridentata*-*Ambrosia dumosa*) Scrub Alliance (after Sawyer, Keeler-Wolf and Evens [2009]). Dominant species include creosote bush, white burr sage (more commonly known as white bursage or burrobrush), brittlebush (*Encelia farinosa*), and white rhatany (*Krameria bicolor*). However, even upland vegetation is most well developed in the drainages, undoubtedly because most of the available water is in the

drainages due to the low regional rainfall and substrate and soil quality. The shallow runnels and washes are dominated by these upland species, generally with big galleta grass (*Hilaria rigida*) and sometimes with wash-dependent shrub vegetation (desert lavender [*Hyptis emoryi*], catclaw acacia [*Senegalia* (= *Acacia*) *greggii*], Anderson boxthorn (*Lycium andersonii*), chuckwalla bush [*Bebbia juncea*], and white and/or little-leaf rhatany [*Krameria erecta*]) in those carrying more water. Blue Palo Verde-Ironwood (*Parkinsonia florida-Olneya tesota*) Woodland Alliance is present in the larger, ephemeral washes that cross the solar plant site, as well as along the linear facilities. Along the linear facilities south of I-10, soils are generally both fine and sandy; shallow sand sheets and dunes, interspersed with small, exposed basins, characterize the east-west segment of this part of the linear route.

With the exception of the initial construction on BSPP in 2011 (a 250-acre area near the center of the solar plant site and the access road north of Interstate 10 [I-10]), there is little disturbance of the Project Area. Adjacent to the solar plant site is a fallow field and an actively farmed citrus orchard. The Project is also located immediately south of the proposed McCoy Solar Energy Project (MSEP). The linear facilities cross I-10 and existing utilities adjacent to the freeway. An alternate linear route west of the BSPP circumvents a small World War II-era water catchment.

3.0 SURVEY METHODS

Prior to field surveys, a target list of special-status species that might be affected by the Project was developed (Table 1) based largely on a review of available literature and databases, especially the California Native Plant Society (CNPS), California Natural Diversity Data Base (CNDDB); Consortium of California Herbaria, and the results of regional surveys. Consultations with the resource agencies (Tetra Tech and Karl 2010) and local experts, as well as the inclusion of BLM Sensitive species from the Northern and Eastern Colorado (NECO) Plan (U.S. BLM and California Department of Fish and Game¹ [CDFG] 2002) also augmented the special species search list. All species were included in the target list if there was any chance that they might grow in the Project vicinity, even if they had never been observed at this elevation or in this area, or if the BSPP would represent a range extension. Herbaceous perennials that also grow in the spring and were surveyed in prior surveys (e.g., Utah cynanchum [*Funastrum utahense*]), as well as the woody and succulent perennials in Table 1 that are available for surveying at any time of year are not included in this report.

The Survey Area is defined as all areas that were surveyed in August/September 2012 for summer annual and herbaceous perennial plants, which include STA's 1,000-MW thermal solar plant site and linear facilities plus an alternate gen-tie route west of the proposed linear route (Figure 2). The linear routes ranged from 200 to 264 ft (60 to 80 m) wide. At the time the surveys were conducted, NextEra Blythe was still in the process of refining/reducing the Project footprint. To ensure that all potential areas within the Project footprint were captured, the entire STA project footprint (for the 1,000-MW thermal solar project) was surveyed.

¹ The California Department of Fish and Game changed its name to the California Department of Fish and Wildlife as of January 1, 2013. This document uses CDFG since it refers to documents and guidance prepared or provided by the agency prior to 2013.

Table 1. Special-status summer annual plants potentially occurring within the Blythe Solar Power Project

Species		Status ¹				Habitat	Blooming Time	Likelihood of Occurrence on the Project Site ²
		Federal	State	CNDDB Rank	CNPS/ Other			
<i>Abronia villosa</i> var. <i>aurita</i>	Chaparral Sand Verbena	---	---	G5T3T4/S2	1B.1	Loose to aeolian sands; chaparral and coastal sage scrub; below 2,000 feet	January-September	Highly unlikely; not observed
<i>Chamaesyce parryi</i>	Parry's Spurge	---	---	G5/S1	2.3	Dunes an Aeolian soils in Mojavean Desert Scrub; in California, known only from Kelso; 1,300-2,400 feet	May-November	Highly unlikely due to limited range and not observed
<i>Chamaesyce platysperma</i>	Flat-seeded Spurge	BLM Sensitive	---	G3/S1	1B.2	Sandy flats and dunes in Sonoran Desert Scrub; below 350 feet	February-September	Unlikely - not observed
<i>Cuscuta californica</i> var. <i>apiculata</i>	Pointed Dodder	---	---	G5T3?/S2S3	3	Sonoran and Mojavean Desert Scrubs in San Bernardino County (one record in western Riverside County), to Nevada and Baja, California; 0 - 1,650 feet	February-September	Possible; not observed
<i>Digitaria californica</i>	Arizona Cottontop	---	---	G5T5?/S2	2.3	Rocky Sonoran and Mojavean Desert Scrubs; three consortium records in California; 950 to 4,900 feet	July-November	Highly unlikely due to rocky association; not observed
<i>Ditaxis claryana</i>	Glandular Ditaxis	---	---	G4G5/S1	2.2	Sandy flats in Mojavean and Sonoran Creosote Bush Scrubs in Imperial, San Bernardino, and Riverside counties; below 1,500 feet	Mostly December to May, rarely August-October	Possible; not observed
<i>Ditaxis serrata</i> var. <i>californica</i>	California Ditaxis	---	---	G5T2T3/S2	3.2	Sonoran Creosote Bush Scrub from 100 to 3,000 feet	All year	Possible; not observed
<i>Euphorbia</i> (= <i>Chamaesyce</i>) <i>abramsiana</i>	Abrams' Spurge	---	---	G4/S2/3 ³	2.2	Sandy sites in Mojavean and Sonoran Desert scrubs in eastern California; 0 to 3,000 feet	September-November	Observed on and off site in 2012 and on adjacent MSEP in 2011
<i>Funastrum utahense</i>	Utah vine milkweed	---	---	G4/S3.2	4.2	Sandy and gravelly areas in Mojavean and Sonoran Creosote Bush Scrub; 490 - 4,700 feet	Spring, Fall	Observed during 2012 surveys, but not recorded due to extensive mapping during previous surveys
<i>Helianthus niveus tephrodes</i>	Algodones Dunes Sunflower	---	E	G4T2/S2	1B.2	Desert dunes, especially Algodones Dunes	March-May, October-January	Highly unlikely; not observed
<i>Horsfordia alata</i>	Pink Velvet Mallow	---	---	G4/S3.3	4.3	Rocky areas in Sonoran Desert Scrub, 328-1,640 feet	December-April, although Consortium records are from January to December	Highly unlikely; not observed
<i>Horsfordia newberryi</i>	Newberry's Velvet-mallow	---	---	G4/S3.3	4.3	Mostly rocky canyons and toeslopes in Sonoran Desert Scrub; 10 - 2,650 feet	March-April and November-December	Possible - most Consortium records are spring; not observed
<i>Hymenoxys odorata</i>	Bitter Hymenoxys	---	---	G5/S2	2	Riparian scrub and Sonoran Desert Scrub,	February-May and	Unlikely because of species

Table 1. Special-status summer annual plants potentially occurring within the Blythe Solar Power Project

Species		Status ¹				Habitat	Blooming Time	Likelihood of Occurrence on the Project Site ²
		Federal	State	CNDDB Rank	CNPS/ Other			
						sandy flats near Colorado River, known only from the Colorado River alluvial plain, 150- 495 feet	October-November	association with the Colorado River floodplain; not observed
<i>Imperata brevifolia</i>	California Satintail	---	---	G2/S2.1	2.1	Wet springs, meadows, and flood plains in Chaparral, Coastal Scrub, Mojavean Desert Scrub; 0 – 1,650 feet	September-May, but Consortium records are for entire year	Not present. No habitat and not observed
<i>Physalis lobata</i>	Lobed Ground Cherry	---	---	G5/S1.3?	2.3	Mojave Desert Scrub, playas, granitic soils, 1,640-2,625 feet	April-November	Not present – not observed. Also, all known locations well to north of Project and at higher elevations.
<i>Portulaca halimoides</i>	Desert Portulaca	---	---	G5/S3	4.2	Sandy areas and flats in Joshua tree woodland and desert mountains; 3,280-3,937 feet	April, August-October	Highly unlikely due to lack of habitat and elevational constraints; not observed
<i>Proboscidea althaeifolia</i>	Desert Unicorn Plant	---	---	G5/S3.3	4.3	Sandy areas in Sonoran Desert Scrub throughout southeastern California, below 3,300 feet.	(April-) May-August	Observed during 2012 surveys
<i>Selaginella eremophila</i>	Desert Spike Moss	---	---	G4/S2.2?	2.2	Shaded rocky habitats in the Sonoran Desert, to Arizona and northern Mexico; below 3,600 feet	December-April, July-October	Unlikely due to lack of habitat; not observed
<i>Teucrium cubense depressum</i>	Dwarf Germander	---	---	G4G5T3T4/S2	2.2	Sandy soils, washes, fields; below 1,300 feet	March-May, and September-November	Possible; not observed
<i>Wislizenia refracta palmeri</i>	Palmer's Jackass Clover	---	---	G5T2T4/S2?	2.2	Sandy washes and dunes in Sonoran Desert Scrub, to northwestern Mexico; potentially Mojave Desert (unverified); <430 feet.	March-November	Possible; not observed
<i>Wislizenia refracta var. refracta</i>	Jackass Clover	—	—	G5T5?/S1.2?	2.2	Sandy washes, roadsides, flats; 1,900 to 2,700 feet	April-December	Unlikely due to elevational constraints; not observed

Note: Other special-status species that grow only in late winter or spring, and woody species, were not included because they were surveyed in 2009 and 2010 (see EDAW AECOM 2009 and AECOM 2010).

Sources: Unless noted, information is from *The Jepson Manual* (Baldwin et al. 2002), California Native Plant Society (CNPS) Online Inventory (CNPS 2012), and the Jepson eFlora Project (<http://ucjeps.berkeley.edu/LJM.html>)

¹ Status:

BLM Sensitive: Species under review, rare, with limited geographic range or habitat associations, or declining. BLM policy is to provide the same level of protection as FWS candidate species

CNDDB 2012: CDFG Special Vascular Plants, Bryophytes, and Lichens List, October 2012 (www.dfg.ca.gov/biogeodata/cnddb/pdfs/SPPlants.pdf).

Global Rank:

G1 = Critically Imperiled
G2 = Imperiled
G3 = Vulnerable

State Rank:

S1 = Critically Imperiled
S2 = Imperiled
S3 = Vulnerable

Subspecies or Variety Rank and Other Symbols

T1-T5: same definition as global and state ranks, except that rank only applies to the particular variety or subspecies.
X: species is considered extirpated

Table 1. Special-status summer annual plants potentially occurring within the Blythe Solar Power Project

G4 = Apparently Secure

G5 = Secure

S4 = Apparently Secure

S5 = Secure

California Rare Plant Rank (CNPS 2012):

Rank 1A - Plants presumed extinct in California

Rank 1B - Plants rare and endangered in California and elsewhere

Rank 2 - Plants rare and endangered in California but more common elsewhere

Rank 3 - Plants about which CNPS needs more information

Rank 4 - Plants of limited distribution (Watch List)

(Note: California Rare Plant Rank 1 and 2 require CEQA consideration. List 3 and 4 plants that must be surveyed per the Northern and Eastern Colorado Desert Management Plan (BLM and CDFG 2002) were also included for surveying)

Threat Ranks:

0.1-Seriously threatened in California (high degree/immediacy of threat)

0.2-Fairly threatened in California (moderate degree/immediacy of threat)

0.3-Not very threatened in California (low degree/immediacy of threats or no current threats known)

² Because of the excellent germination and growth conditions for summer annual species in August/September 2012, larger species that were not observed were determined to be highly unlikely to be present if not observed. Small herbaceous species that were not observed could have been overlooked and therefore were not excluded from possibly being on the site.

³ R. Bittmann (CNDDDB), 06 December 2012 e-mail to E. Mix (TetraTech, Inc.).

Surveys were conducted according to COC BIO-19, and closely followed protocols that were reviewed and approved by the BLM, CDFG and the U.S. Fish and Wildlife Service (FWS) in 2010 for the MSEP (Tetra Tech and Karl 2010), located directly north of the BSPP. These protocols are consistent with the CDFG *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFG 2009). They are also consistent with BLM's *Survey Protocols Required for NEPA and ESA Compliance for BLM Special Status Plant Species* (BLM 2009) for an intuitive controlled survey, wherein a full survey is completed (i.e., 100 percent visual examination) in habitats with the highest potential for rare plants, with sampling in the remaining areas. To this end, surveys focused on swales, washes, runnels, rocky outcrops, and dunes because of the affinity of the herbaceous species in Table 1 for those habitats and because areas where rainfall collects have the greatest potential for germination of most species. To achieve this focus and optimize sampling, the Survey Area was divided into smaller sampling units and into the following survey categories:

- Full coverage (transects spaced no farther than 10 meters apart, covering 100 percent of the possible habitat) in the areas where the interdigitating mosaic of washes and runnels was too complex to survey less than 100 percent. This comprised approximately 75 percent of the solar plant site and 100 percent of the linear routes. Transects were pre-programmed into Global Positioning System (GPS) units to ensure accurate and complete site coverage. Survey teams were generally limited to three people to minimize the searching and focus inefficiencies that are common with larger teams.
- In the west, where intermittent drainages crossed broad sparse areas, full coverage in all vegetated drainages, from small runnels to larger washes, with sampling in the interfluves.

Surveys were conducted when plants were in optimum condition for identification (with flowers and/or fruits, leaves, and actively growing). The Blythe Airport weather station reported above-average precipitation for July and considerable rainfall for August 2012 (Table 2). The storms in July included a series of storms from July 12 to 15 that rained more than an inch and an intense monsoon on July 30-31 that recorded 0.38 inches of rain at Blythe Airport (National Oceanic and Atmospheric Administration [NOAA] 2012). The July and August rain events resulted in widespread germination and growth of summer species. The biological lead timed surveys to capture germination resulting from the several July storms, after assessing plant vigor and phenology in the field. Surveys were then further chronologically prioritized in the Survey Area to insure that the areas/habitats that could host special-status plants were surveyed at the appropriate phenological time, when those species were available for identification. Surveys were conducted from August 23 through September 2, 2012. A qualified botanical team, with substantial experience in the area (Appendix A), conducted the surveys.

Table 2. 2012 Monthly precipitation data (in inches), Blythe, CA airport (Source: Western Regional Climate Center 2012)

YEAR	Jan	Feb	Mar	Apr	May	June	Jul	Aug	Sept	Oct	Nov	Dec	Annual
2012	0.00	0.01	0.19	0.14	0.00	0.00	1.88	1.05	0.07	0.27*	TBD	TBD	TBD
Average 1948-2012	0.48	0.44	0.35	0.15	0.02	0.02	0.28	0.60	0.34	0.26	0.19	0.41	3.55

TBD: To Be Determined – Data not currently available for these months

* 7 days missing from total

Surveyors targeted every special-status plant that could be reasonably expected to occur, but employed a comprehensive floristic survey approach, identifying all plants observed to ensure that unexpected special-status plants were also found. Surveyors were very experienced with plant species in the arid southwest, but were also equipped with plant descriptions, keys to identify plants to the subspecies level, and pictures of each special-status plant species with the potential to occur within the Survey Area. All species observed were identified microscopically using relevant publications (e.g., Baldwin et al. 2002, Felger 2000, Jepson eFlora 2012); special-status species were photographed and vouchered. Surveyors described and mapped all populations of special-status plant species (except as noted above). Populations were recorded using GPS units, and population size, associated biotic and abiotic features, phenology, plant size (vigor), and threats to the population were noted.

Prior to conducting surveys, surveyors reviewed the target species (descriptions, photographs of live or herbarium specimens, microhabitat associations) to enhance search images of plants and microhabitats and determine distinctions among similar genera. Reference populations of Abrams' spurge (*Euphorbia* (= *Chamaesyce*) *abramsiana*) were visited to refresh search images and because known populations were close. For the other fall-growing species, either no reference populations were reasonably close and/or the species were highly unlikely due to lack of habitat or geographic range. However, the surveyors were already very familiar with many from studying them elsewhere and/or reviewing distant reference populations for the MSEP survey the year prior.

Surveyors were also instructed to record any recent desert tortoise (*Gopherus agassizii*; state and federally listed as Threatened) sign - individuals, scat, and tracks - as well as observations of other special-status wildlife.

4.0 SURVEY RESULTS AND DISCUSSION

Surveyors did not find any federally or state-threatened, endangered, or candidate plant species during surveys. However, surveyors did observe populations of two CNDDDB Ranked and CNPS California Rare Plant Ranked species within the Survey Area: Abrams' spurge and desert unicorn plant (*Proboscidea althaeifolia*). Observations are presented as CNDDDB Occurrences on Figures 3A and 3B with an estimation of the extent of the population to a mile from the Project. Population extents were estimated based on habitat (e.g., drainages and drainage patterns), as well as available data from previous surveys in the surrounding areas (AECOM 2010, Tetra Tech and Karl 2011b). A comprehensive table of observations with corresponding figures is presented in Appendix B. A comprehensive list of plants observed during surveys is in Appendix C. Copies of the completed and submitted CNDDDB forms for each species are in Appendix D.

4.1 Abrams' Spurge (CNPS California Rare Plant Rank 2.2; CNDDDB G4/S2S3)

This member of the Euphorbiaceae family is an annual herb native to California, Arizona, and Mexico at elevations ranging between sea level and 915 feet; it has been documented in Imperial, Riverside, San Bernardino, and San Diego Counties (CNPS 2012). This species blooms in response to warm summer rains and, while it is reported to be found in creosote bush scrub in sandy soils (CNPS 2012), it was consistently found in fine, often compacted, soils with low sand composition that hold moisture.



Abrams' spurge (photo A. Karl)

Abrams' spurge was found within and outside of the Survey Area during the August/September 2012 surveys. There were 2,270+ plants within the Survey Area; 2,185+ plants in the northwest quarter of the solar plant site and 85+ plants along the linear facilities south of I-10. The plants in the solar plant site are part of a population that extends north beyond the Project boundary for at least two miles (Tetra Tech and Karl 2011b). An additional 14,000+ plants were found outside the Project directly north of Black Rock Road, an existing graveled road that fronts I-10 and provides access to the Project. Plants were found almost exclusively in shallow depressions and runnels.

Although widespread in southern Arizona and northwestern Sonora, Mexico (Felger 2000), few locations for Abrams' spurge had been documented in California prior to the Fall 2011. Large-scale surveys on several solar projects in 2011 and 2012 (e.g., MSEP, BSPP, Rio Mesa Solar Electric Generating Facility), plus a California range-wide search in 2011 and 2012 supported by McCoy Solar, LLC, demonstrated that this species is far more common than earlier believed. With increased sampling in both 2011 and 2012, the number of publicly documented occurrences of *C. abramsiana* increased from 16 to 74. The results from these extensive and intensive surveys during two years of high germination and growth strongly suggest that this species has been undersampled in California in the past. This discussion, as well as further analyses of Abrams' spurge, can be found in Karl (2013).

4.2 Desert Unicorn Plant (CNPS California Rare Plant Rank 4.3; CNDDB G5/S3.3)

This perennial herb in the family Martyniaceae grows on alluvial sands in Sonoran Desert scrub habitat at elevations below 3,300 feet (Baldwin et al. 2002). Desert unicorn plant has a fleshy root system that can remain dormant in dry years. Although it typically grows and flowers between July and September after substantial summer rains, a few individuals have aboveground growth in spring. Fruits (seed pods) from the previous year are large and moderately visible throughout the year.

This species was common throughout the Survey Area except in the far western portion of the solar plant site and the loose sandy areas south of I-10. Surveyors observed 1,687 plants within the Survey Area, primarily in runnels and swales that held water for a short time. The

observations are likely part of one population within the same watershed that extends to the north for at least two miles (Tetra Tech and Karl 2011b); plants are expected to occur in suitable habitat in the vicinity of the Project (Figure 3A and 3B). The consistency of plants in appropriate swales was also observed elsewhere in the region, including the Genesis Solar Energy Project (Tetra Tech and Karl 2010) and McCoy Solar Energy Project (Tetra Tech and Karl 2011a, 2011b).



Desert unicorn plant in flower (Photo E. Mix)

As a CNPS Rare Plant Rank 4, desert unicorn plant requires CEQA consideration if the population has local or regional significance (CDFG 2009). Based on the abundance and distribution within the BSPP and nearby project areas, the BSPP population is not considered locally or regionally significant.

4.3 Incidental Wildlife

No recent desert tortoise sign or special-status species was observed during surveys.

5.0 LITERATURE CITED

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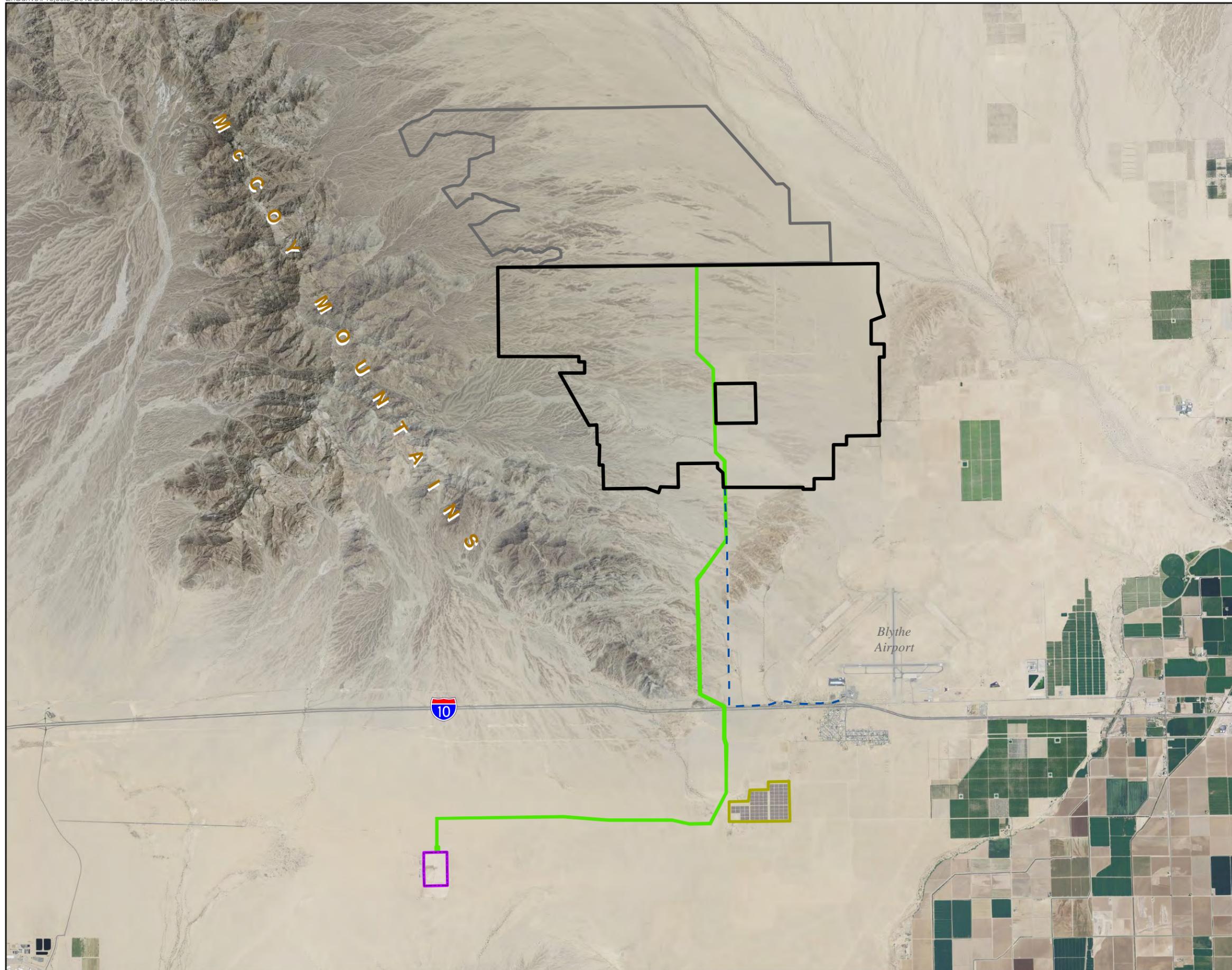
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FIGURES

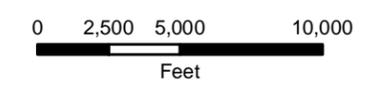


BLYTHE SOLAR POWER PROJECT RIVERSIDE COUNTY, CA



Legend

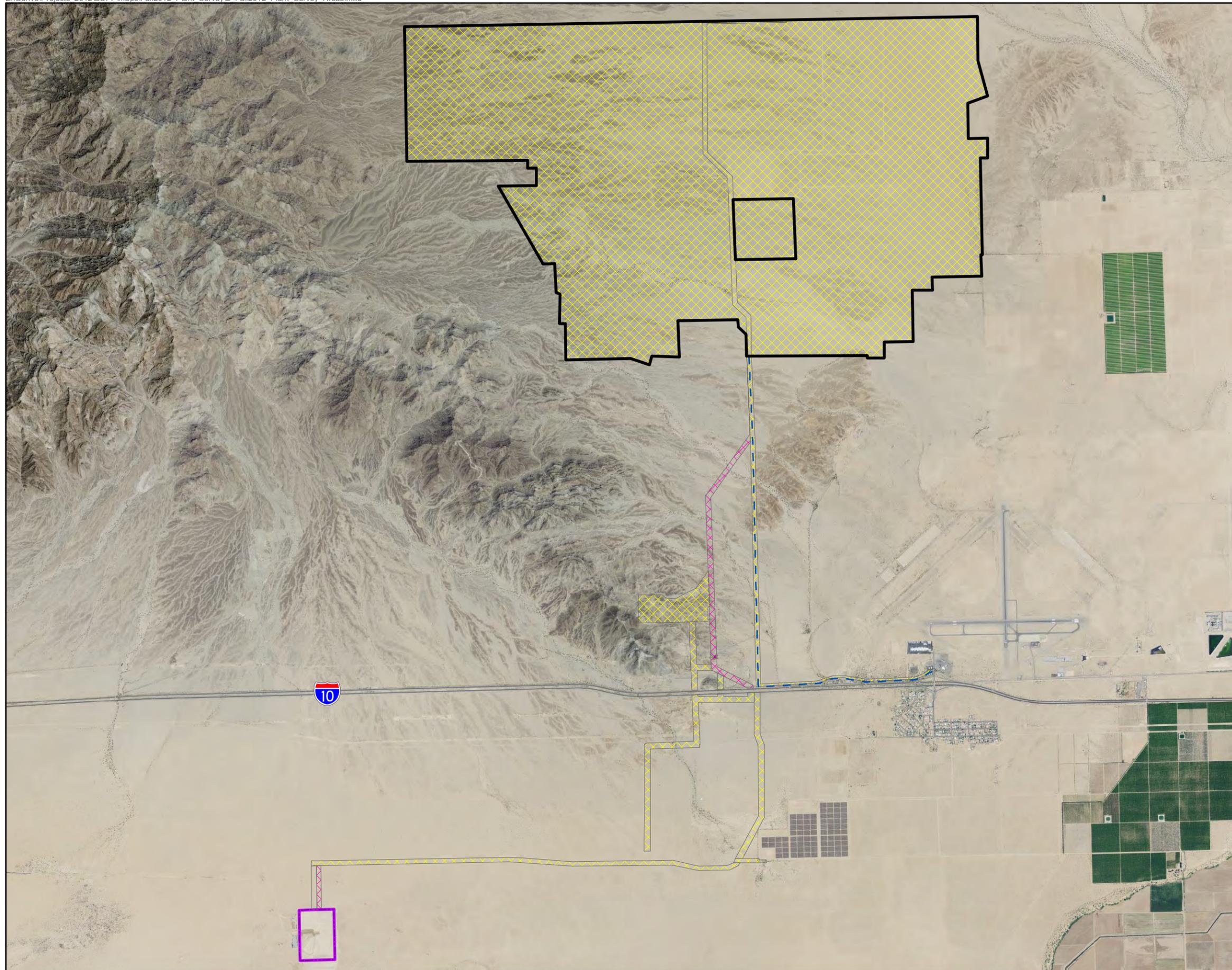
- Blythe Solar Power Project Requested ROW (STA's 1,000-MW Footprint)
- MSEP Solar Plant Site
- PV Solar Facility
- Linear Corridor
- Access Road Shared with Other Solar Projects
- SCE Colorado River Substation



Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: ESRI, USGS, TTEC

FIGURE 1
PROJECT LOCATION

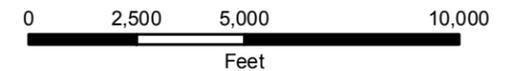




BLYTHE SOLAR POWER PROJECT RIVERSIDE COUNTY, CA

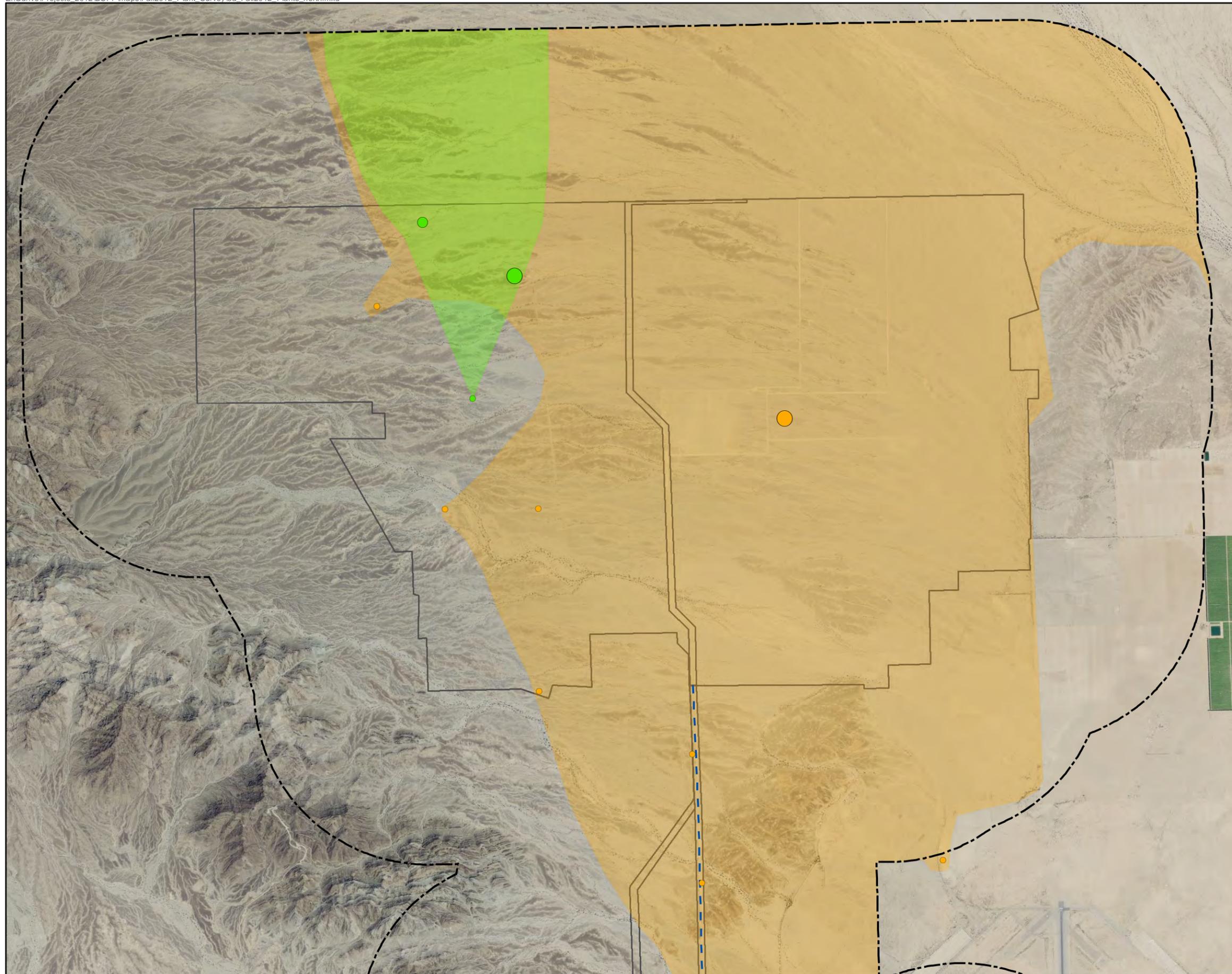
Legend

- Blythe Solar Power Project ROW Boundary (STA's 1,000-MW Footprint)
- Linear Corridor
- Access Road Shared with Other Solar Projects
- SCE Colorado River Substation
- Linear Corridor Survey Area
- Linear Corridor Survey Area in Fall 2011 for MSEP



Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: USDA, TTEC

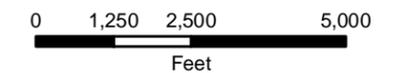
FIGURE 2
SPECIAL-STATUS
SUMMER ANNUAL PLANT SURVEY AREA
AUGUST/SEPTEMBER 2012



BLYTHE SOLAR POWER PROJECT RIVERSIDE COUNTY, CA

Legend

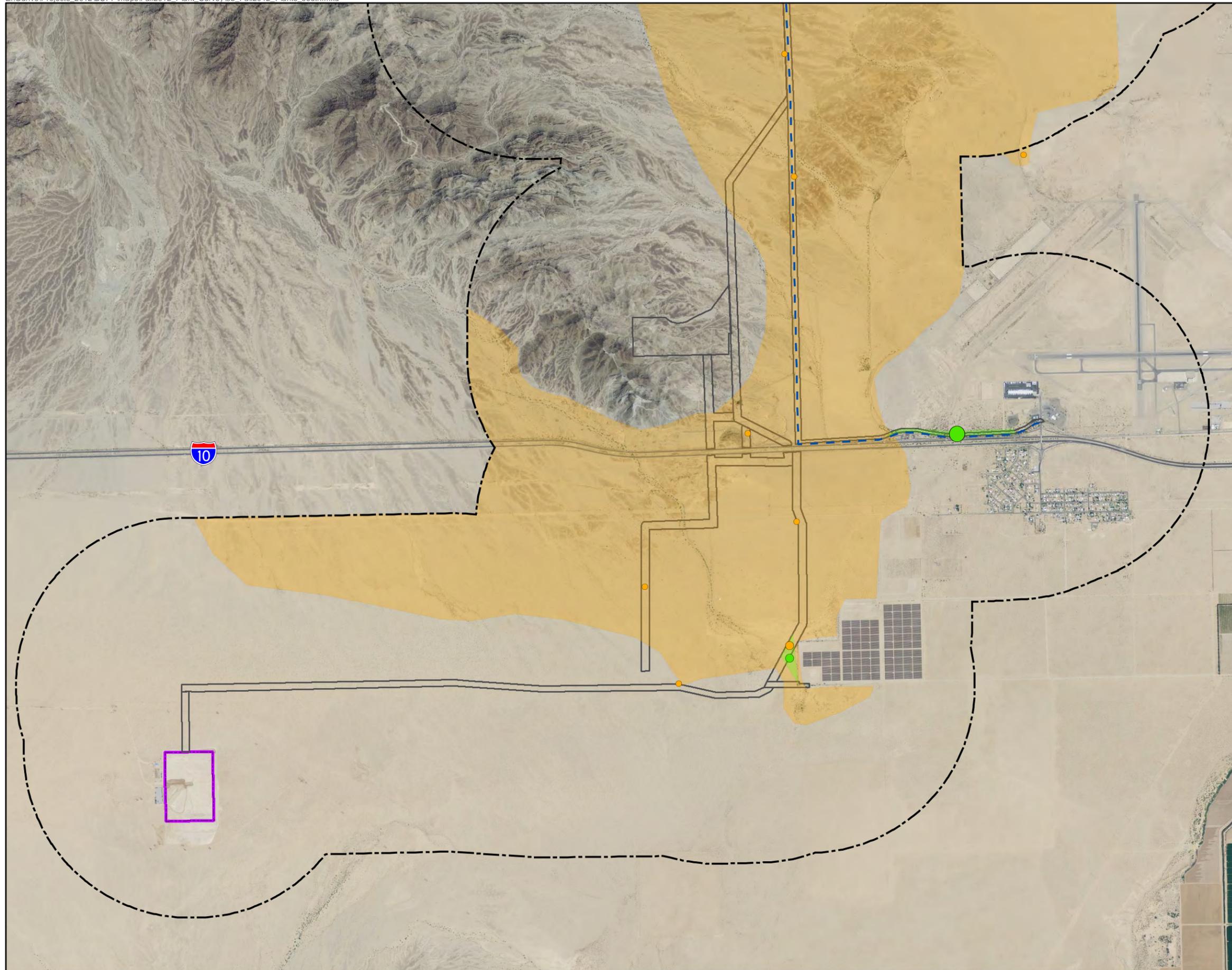
- Survey Area
- Survey Area 1-mile Buffer
- Access Road Shared with Other Solar Projects
- Plant Species**
 - Abrams' Spurge
 - Desert Unicorn Plant
- Occurrence (as defined by CNDDb) Size**
 - <25 Plants
 - 25-100 Plants
 - 101-500 Plants
 - 501-1,000 Plants
 - >1,000 Plants
- Extent of Recorded Observations and Estimated Populations**
 - Abrams' Spurge
 - Desert Unicorn Plant



Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: USDA, Tetra Tech, A. Karl 2011

FIGURE 3A
CNDDb OCCURRENCES
AUGUST/SEPTEMBER 2012





BLYTHE SOLAR POWER PROJECT RIVERSIDE COUNTY, CA

Legend

- Survey Area
- Survey Area 1-mile Buffer
- Access Road Shared with Other Solar Projects
- SCE Colorado River Substation

Plant Species

- Abrams' Spurge
- Desert Unicorn Plant

Occurrence (as defined by CNDDDB) Size

- <25 Plants
- 25-100 Plants
- 101-500 Plants
- 501-1,000 Plants
- >1,000 Plants

Extent of Recorded Observations and Estimated Populations

- Abrams' Spurge
- Desert Unicorn Plant



0 1,250 2,500 5,000
Feet

Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: USDA, Tetra Tech, A. Karl 2011

FIGURE 3B
CNDDDB OCCURRENCES
AUGUST/SEPTEMBER 2012,
LINEAR FACILITIES



APPENDIX A
August-September 2012 Survey Crew

Field Biologists
Marc Baker, Ph.D.
Kyle Christie
Michelle Cloud Hughes
Paul Frank
Tasya Herskovits
Adam Hamburg
Michael Honer
Neal Kramer
Alice Karl, Ph.D.*
Wendy McBride
Emily Mix *
Suzanne Rhodes
Glenn Rink
Gina Robinson
Kanan Routson
Art Schaub
Tim Thomas

*Report Preparers

APPENDIX B
Comprehensive August 2012 Special-status Plant Survey Results

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
2	705543	3729819	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	33	300
4	705682	3729844	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	10	189
5	705707	3729671	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	19	10
7	705899	3729866	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	10	100
10	706025	3729917	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	42	550
14	706201	3729957	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	4	5
16	706337	3728184	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	2	1
22	706648	3729335	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 2000	170 (linear)
24	706802	3729312	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	65	80 (linear)
105	708331	3719063	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 50	70
118	708447	3719276	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 35	200
129	708501	3718801	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	1	1
231	709351	3721199	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	430	250
246	709510	3721238	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	35	80
265	709695	3721251	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 1500	2.5 ha
284	709885	3721200	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 5,000	
341	710342	3721222	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 3,000	
364	710617	3721241	<i>Euphorbia (=Chamaesyce)</i>	Abrams' spurge	> 4,000	
1	705335	3729007	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
3	705598	3729068	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
6	705744	3729687	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	70
8	705946	3729753	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	90
9	705995	3729883	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	145

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
11	706067	3729968	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	15
12	706078	3727161	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
13	706162	3729827	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	25
15	706222	3729845	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	4
17	706388	3729784	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	70
18	706453	3729850	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	4
19	706566	3729321	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	5
20	706634	3729018	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	75
21	706640	3729898	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
23	706734	3729869	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
25	706832	3729053	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	60
26	706849	3729844	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	20
27	706861	3729629	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	10
28	706881	3729268	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	30
29	706923	3729471	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	10
30	706942	3727168	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	50 (linear)
31	706952	3725477	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
32	706980	3728583	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
33	706983	3728117	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
34	706991	3719870	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	60
35	707000	3719393	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	5
36	707037	3719598	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	10
37	707043	3720226	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
38	707067	3729868	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
39	707071	3728885	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
40	707212	3729500	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
41	707217	3728920	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	500
42	707223	3729056	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
43	707273	3728120	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
44	707282	3726485	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
45	707297	3729613	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
46	707338	3718791	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	10
47	707410	3726291	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
48	707415	3727715	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
49	707432	3729509	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
50	707451	3727133	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
51	707527	3729872	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	1
52	707538	3729020	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	5
53	707538	3728756	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	20
54	707562	3727328	<i>Proboscidea althaeifolia</i>	desert unicorn plant	28	210
55	707575	3727977	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	80
56	707611	3730009	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
57	707617	3729516	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
58	707631	3728687	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
59	707651	3728346	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
60	707653	3728970	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	70 (linear)

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
61	707729	3726125	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
62	707747	3727890	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
63	707795	3728788	<i>Proboscidea althaeifolia</i>	desert unicorn plant	12	200
64	707803	3729350	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	75
65	707828	3728983	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
66	707829	3729502	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
67	707838	3727905	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
68	707865	3726757	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
69	707873	3729131	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	20
70	707892	3726097	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	10
71	707920	3729445	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
72	707933	3728737	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
73	707939	3728834	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
74	707943	3727406	<i>Proboscidea althaeifolia</i>	desert unicorn plant	53	290
75	707971	3727603	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	10
76	707990	3727627	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
77	708013	3721159	<i>Proboscidea althaeifolia</i>	desert unicorn plant	16	175
78	708013	3721269	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
79	708042	3726722	<i>Proboscidea althaeifolia</i>	desert unicorn plant	13	not noted
80	708044	3727885	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	30
81	708048	3726086	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	85
82	708049	3728232	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
83	708055	3728038	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	15

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
84	708083	3728959	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	30
85	708097	3729405	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	50
86	708099	3729267	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
87	708099	3726848	<i>Proboscidea althaeifolia</i>	desert unicorn plant	17	90 (linear)
88	708116	3727996	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	60
89	708133	3728800	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	35
90	708167	3727515	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
91	708172	3727736	<i>Proboscidea althaeifolia</i>	desert unicorn plant	12	320
92	708174	3727322	<i>Proboscidea althaeifolia</i>	desert unicorn plant	20	100
93	708182	3728336	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
94	708197	3726902	<i>Proboscidea althaeifolia</i>	desert unicorn plant	20	134 (linear)
95	708219	3726263	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
96	708222	3726365	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
97	708226	3729437	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
98	708256	3726775	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	86
99	708270	3727826	<i>Proboscidea althaeifolia</i>	desert unicorn plant	16	174
100	708288	3729844	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	1
101	708291	3726992	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	100
102	708312	3728454	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
103	708314	3726720	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	50 (linear)
104	708320	3718961	<i>Proboscidea althaeifolia</i>	desert unicorn plant	13	50
106	708342	3729496	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
107	708348	3729311	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
108	708350	3719051	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
109	708358	3727470	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	250 x100
110	708370	3724897	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
111	708381	3727231	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	5
112	708396	3726912	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	150 (linear)
113	708437	3729033	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	100
114	708442	3719158	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
115	708445	3728498	<i>Proboscidea althaeifolia</i>	desert unicorn plant	12	130 (linear)
116	708447	3723930	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
117	708447	3727902	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	120
119	708451	3723541	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	91
120	708456	3728709	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
121	708457	3729568	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
122	708461	3723707	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	65
123	708476	3729296	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	1
124	708476	3727070	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
125	708486	3720364	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
126	708490	3726976	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	3 x 8
127	708494	3727767	<i>Proboscidea althaeifolia</i>	desert unicorn plant	15	150
128	708499	3718815	<i>Proboscidea althaeifolia</i>	desert unicorn plant	22	25
130	708510	3719509	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	50
131	708517	3726861	<i>Proboscidea althaeifolia</i>	desert unicorn plant	18	130 (linear)
132	708527	3727392	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	10

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
133	708536	3726109	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
134	708540	3726305	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	100
135	708555	3727253	<i>Proboscidea althaeifolia</i>	desert unicorn plant	14	50
136	708556	3729479	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	5
137	708557	3729513	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
138	708564	3726734	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	100 (linear)
139	708565	3725768	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
140	708592	3729740	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	18
141	708597	3729506	<i>Proboscidea althaeifolia</i>	desert unicorn plant	15	65
142	708598	3729388	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	55
143	708599	3728849	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	25
144	708605	3727496	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	20 x 300
145	708621	3725838	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
146	708629	3728564	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	100
147	708631	3727040	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
148	708636	3727859	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	80
149	708641	3729313	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	60
150	708641	3726791	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	140 (linear)
151	708644	3727514	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	137 x 115
152	708661	3728939	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	90
153	708676	3728274	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	2
154	708682	3729787	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	100
155	708720	3728768	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	13

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
156	708730	3725820	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
157	708733	3726079	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
158	708751	3729406	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	4
159	708753	3727197	<i>Proboscidea althaeifolia</i>	desert unicorn plant	38	70
160	708756	3729076	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
161	708762	3729458	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10	67
162	708763	3728241	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	1
163	708765	3727303	<i>Proboscidea althaeifolia</i>	desert unicorn plant	11	130 x 100
164	708772	3729678	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	32
165	708798	3727748	<i>Proboscidea althaeifolia</i>	desert unicorn plant	20	170
166	708800	3728382	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
167	708800	3725936	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	125
168	708816	3728892	<i>Proboscidea althaeifolia</i>	desert unicorn plant	12	500
169	708822	3727596	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	30
170	708832	3726614	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	12
171	708846	3729831	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
172	708852	3728086	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	1
173	708856	3728479	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	1
174	708866	3729610	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	10
175	708871	3728211	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
176	708891	3727834	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	100
177	708905	3727741	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	20
178	708905	3727041	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	25

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
179	708906	3726224	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	60
180	708909	3726378	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
181	708913	3729681	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
182	708916	3728297	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	57
183	708922	3729691	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	60
184	708932	3728609	<i>Proboscidea althaeifolia</i>	desert unicorn plant	11	90
185	708933	3729264	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	5
186	708940	3726740	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
187	708944	3728704	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	70
188	708953	3726653	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
189	708963	3729008	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
190	708964	3729583	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
191	708970	3727271	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	215
192	708972	3725618	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	120
193	708980	3728176	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
194	709001	3727493	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	180
195	709007	3728315	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	100
196	709032	3728444	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	61
197	709036	3726979	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	136 (linear)
198	709060	3728870	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10	100
199	709104	3727192	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	144
200	709106	3729565	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	60
201	709112	3726148	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	76

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
202	709114	3728395	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	4
203	709123	3728524	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	95
204	709130	3729805	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1.5
205	709131	3729023	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
206	709138	3729347	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	20
207	709140	3729160	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
208	709146	3728642	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	70
209	709178	3729669	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	18
210	709180	3728211	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	110
211	709180	3726396	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	20 (linear)
212	709188	3728740	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	90 (linear)
213	709194	3728851	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	25
214	709205	3725943	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
215	709211	3727881	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	3
216	709213	3726870	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	130 (linear)
217	709215	3726743	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	14
218	709218	3729519	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10	46
219	709220	3725619	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
220	709225	3727744	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	60
221	709237	3729200	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	80
222	709241	3728433	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	77
223	709251	3726240	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	60
224	709283	3728798	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
225	709294	3727425	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	120 x 77
226	709320	3728128	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	75
227	709321	3727933	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	8
228	709322	3726015	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
229	709326	3729119	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10	70
230	709328	3728572	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	70
232	709381	3729038	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	5
233	709402	3726273	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	115 x 90
234	709404	3729598	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
235	709406	3727864	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	30
236	709413	3729017	<i>Proboscidea althaeifolia</i>	desert unicorn plant	11	120
237	709413	3725837	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
238	709424	3726133	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
239	709440	3727329	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	10
240	709461	3727094	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	30
241	709467	3727501	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
242	709473	3727918	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	30
243	709501	3729535	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
244	709507	3727717	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
245	709508	3728342	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
247	709541	3726128	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	100
248	709544	3728100	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	120
249	709546	3727034	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	92

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
250	709559	3729413	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	8
251	709570	3727361	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	50
252	709574	3728904	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	80
253	709589	3726446	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	-
254	709594	3727621	<i>Proboscidea althaeifolia</i>	desert unicorn plant	11	125 (linear)
255	709605	3726603	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	100
256	709606	3729207	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	60
257	709621	3725693	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
258	709625	3726838	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	40
259	709633	3726016	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	100
260	709634	3727844	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	200
261	709643	3728134	<i>Proboscidea althaeifolia</i>	desert unicorn plant	14	120
262	709645	3726302	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
263	709646	3727259	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	100
264	709653	3729395	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	45
266	709716	3726752	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
267	709719	3727010	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	107
268	709736	3725680	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
269	709742	3727763	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
270	709753	3729182	<i>Proboscidea althaeifolia</i>	desert unicorn plant	11	70
271	709758	3725885	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
272	709759	3729257	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
273	709765	3730027	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	20

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
274	709772	3727220	<i>Proboscidea althaeifolia</i>	desert unicorn plant	12	160 (linear)
275	709783	3728531	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	80
276	709797	3728344	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10-Aug	120 (linear)
277	709797	3727329	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
278	709812	3725998	<i>Proboscidea althaeifolia</i>	desert unicorn plant	11	100
279	709827	3729575	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
280	709841	3726310	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
281	709849	3727575	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	120 (linear)
282	709865	3728680	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
283	709880	3725859	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	5
285	709887	3726686	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	127
286	709890	3729942	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	16
287	709890	3729307	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	1
288	709898	3727959	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	75
289	709909	3727039	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
290	709918	3728869	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	10
291	709923	3726456	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
292	709932	3729135	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
293	709953	3728348	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	10 (linear)
294	709956	3727052	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	10
295	709967	3729069	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	1
296	709977	3725586	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
297	709985	3728790	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	10

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
298	709990	3729179	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	4
299	709999	3728293	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	10 (linear)
300	710005	3729872	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	40
301	710008	3728630	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
302	710024	3726434	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	60
303	710030	3727222	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	50
304	710035	3726557	<i>Proboscidea althaeifolia</i>	desert unicorn plant	13	200
305	710037	3728015	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	160
306	710047	3726876	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	223
307	710049	3727492	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	100
308	710079	3726233	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
309	710079	3725832	<i>Proboscidea althaeifolia</i>	desert unicorn plant	17	150
310	710097	3727030	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	50
311	710113	3729221	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
312	710117	3728270	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
313	710118	3727642	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	70
314	710123	3729004	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
315	710137	3726375	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	50
316	710139	3727748	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
317	710154	3727837	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	200
318	710167	3729237	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	71
319	710170	3729940	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
320	710171	3728391	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	50 (linear)

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
321	710173	3726655	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	40
322	710190	3727420	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	80
323	710191	3726495	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	1000
324	710199	3725743	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	30
325	710204	3726299	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	80
326	710215	3727274	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
327	710227	3728215	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
328	710235	3726142	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	70
329	710238	3726342	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
330	710252	3727461	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	75 (linear)
331	710254	3727040	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
332	710258	3726441	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	15
333	710264	3726049	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
334	710274	3726335	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	20
335	710275	3730005	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
336	710275	3726799	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	50
337	710280	3727227	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
338	710295	3725832	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
339	710306	3726650	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	-
340	710312	3726411	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
342	710355	3728862	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
343	710360	3726343	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	80
344	710365	3726109	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	80

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
345	710376	3727593	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	116 (linear)
346	710379	3727314	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
347	710392	3727688	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10	60
348	710436	3726734	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	100
349	710447	3727214	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	75
350	710460	3726952	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
351	710486	3727558	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	75 (linear)
352	710493	3726063	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	40
353	710504	3728021	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
354	710510	3726205	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
355	710518	3728519	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
356	710529	3728928	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
357	710533	3727391	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	124 (linear)
358	710539	3727264	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
359	710541	3726415	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	30
360	710552	3728900	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	47
361	710555	3728161	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	3
362	710565	3727016	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
363	710568	3725974	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	-
365	710622	3728043	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	150
366	710630	3727546	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	80 (linear)
367	710664	3727811	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	100
368	710691	3723916	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1

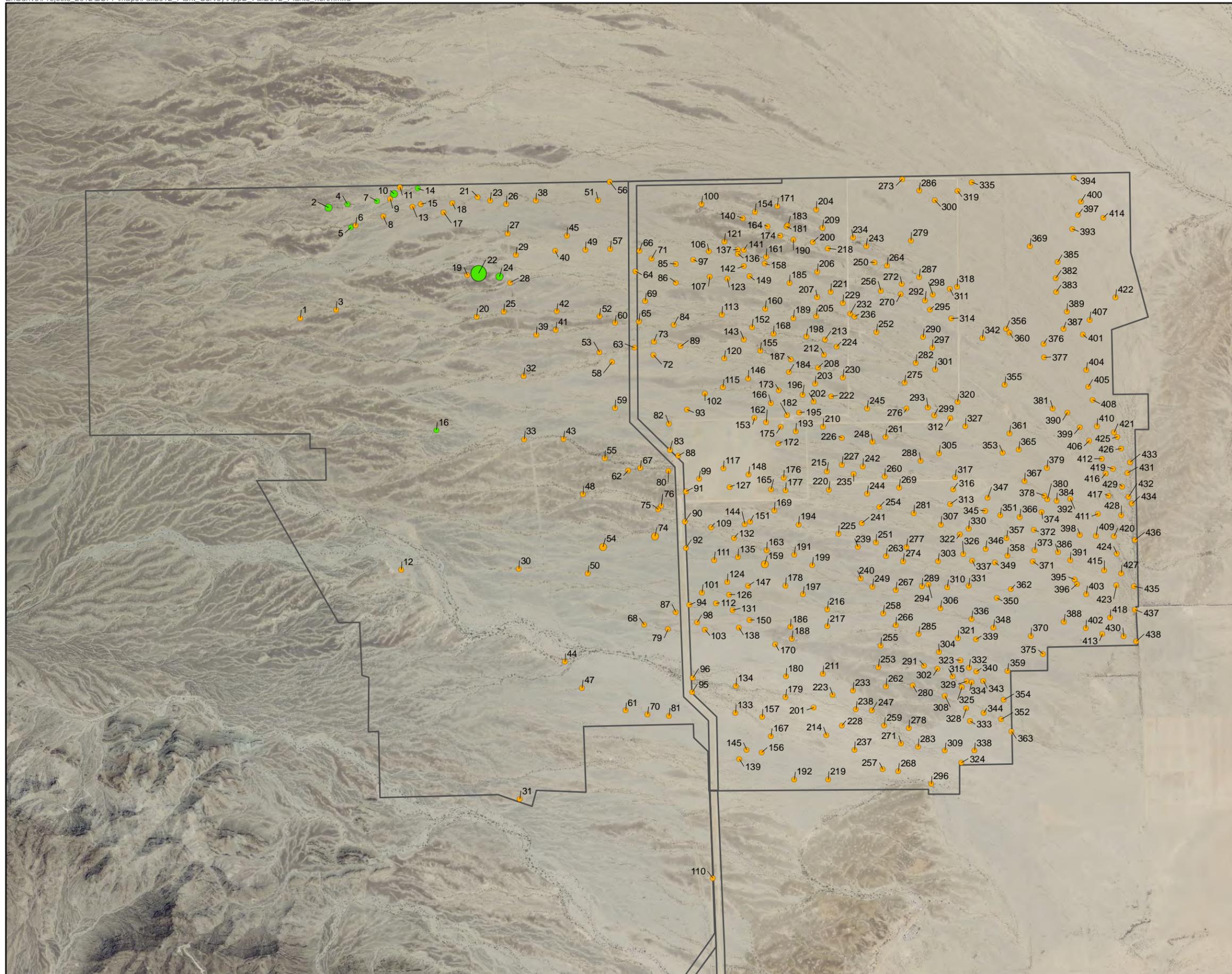
Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
369	710704	3729535	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	40 (linear)
370	710710	3726673	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	122
371	710727	3727221	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	100
372	710734	3727454	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
373	710741	3727301	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	65
374	710790	3727585	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	100 (linear)
375	710800	3726541	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	180
376	710804	3728818	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	30 (linear)
377	710806	3728716	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
378	710811	3727702	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	30
379	710829	3727906	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
380	710832	3727676	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
381	710871	3728344	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	20 (linear)
382	710893	3729300	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	100
383	710895	3729202	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	50
384	710899	3727666	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	92 (linear)
385	710906	3729417	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	50
386	710912	3727289	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
387	710949	3728928	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	80
388	710955	3726776	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
389	710974	3729054	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
390	710980	3728313	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
391	710999	3727230	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	100

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
392	711000	3727682	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
393	711013	3729661	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
394	711027	3730038	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
395	711034	3727088	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	2
396	711050	3727055	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
397	711059	3729765	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
398	711071	3727415	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	10
399	711072	3728208	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	1
400	711078	3729860	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
401	711092	3728885	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
402	711114	3726732	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
403	711119	3726982	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
404	711120	3728624	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	40 (linear)
405	711133	3728502	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	1
406	711141	3728106	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	112
407	711145	3728994	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
408	711165	3728406	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
409	711189	3727409	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	60 (linear)
410	711196	3728213	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
411	711204	3727571	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	85 (linear)
412	711232	3727976	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	100 (linear)
413	711235	3726689	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	40
414	711242	3729742	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
415	711252	3727155	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
416	711262	3727867	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	150 (linear)
417	711283	3727703	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
418	711293	3726808	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	150
419	711316	3727901	<i>Proboscidea althaeifolia</i>	desert unicorn plant	4	20
420	711321	3727406	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	90
421	711322	3728168	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
422	711334	3729159	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
423	711339	3727045	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	1
424	711343	3727278	<i>Proboscidea althaeifolia</i>	desert unicorn plant	6	100 (linear)
425	711346	3728136	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	80
426	711374	3728051	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	10 (linear)
427	711374	3727135	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	90
428	711377	3727560	<i>Proboscidea althaeifolia</i>	desert unicorn plant	10	100
429	711384	3727771	<i>Proboscidea althaeifolia</i>	desert unicorn plant	5	100 (linear)
430	711393	3726668	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	42
431	711421	3727869	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	85
432	711429	3727695	<i>Proboscidea althaeifolia</i>	desert unicorn plant	1	1
433	711440	3727951	<i>Proboscidea althaeifolia</i>	desert unicorn plant	2	40
434	711454	3727646	<i>Proboscidea althaeifolia</i>	desert unicorn plant	3	55 (linear)
435	711468	3727037	<i>Proboscidea althaeifolia</i>	desert unicorn plant	17	134
436	711476	3727379	<i>Proboscidea althaeifolia</i>	desert unicorn plant	7	170
437	711477	3726867	<i>Proboscidea althaeifolia</i>	desert unicorn plant	9	202 (linear)

Number Corresponds to Appendix B Figures	UTM (NAD 83)		Species		Population Size (Number of Plants or Abundance)	Area (square meters)
	Easting	Northing				
438	711488	3726635	<i>Proboscidea althaeifolia</i>	desert unicorn plant	8	21

BLYTHE SOLAR POWER PROJECT RIVERSIDE COUNTY, CA



Legend

Survey Area

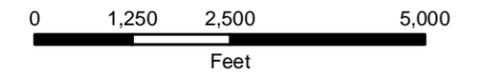
Plant Species

- Abrams' Spurge
- Desert unicorn plant

Number of Plants Observed

- <25 Plants
- 25-100 Plants
- 101-500 Plants
- 501-1,000 Plants
- >1,000 Plants

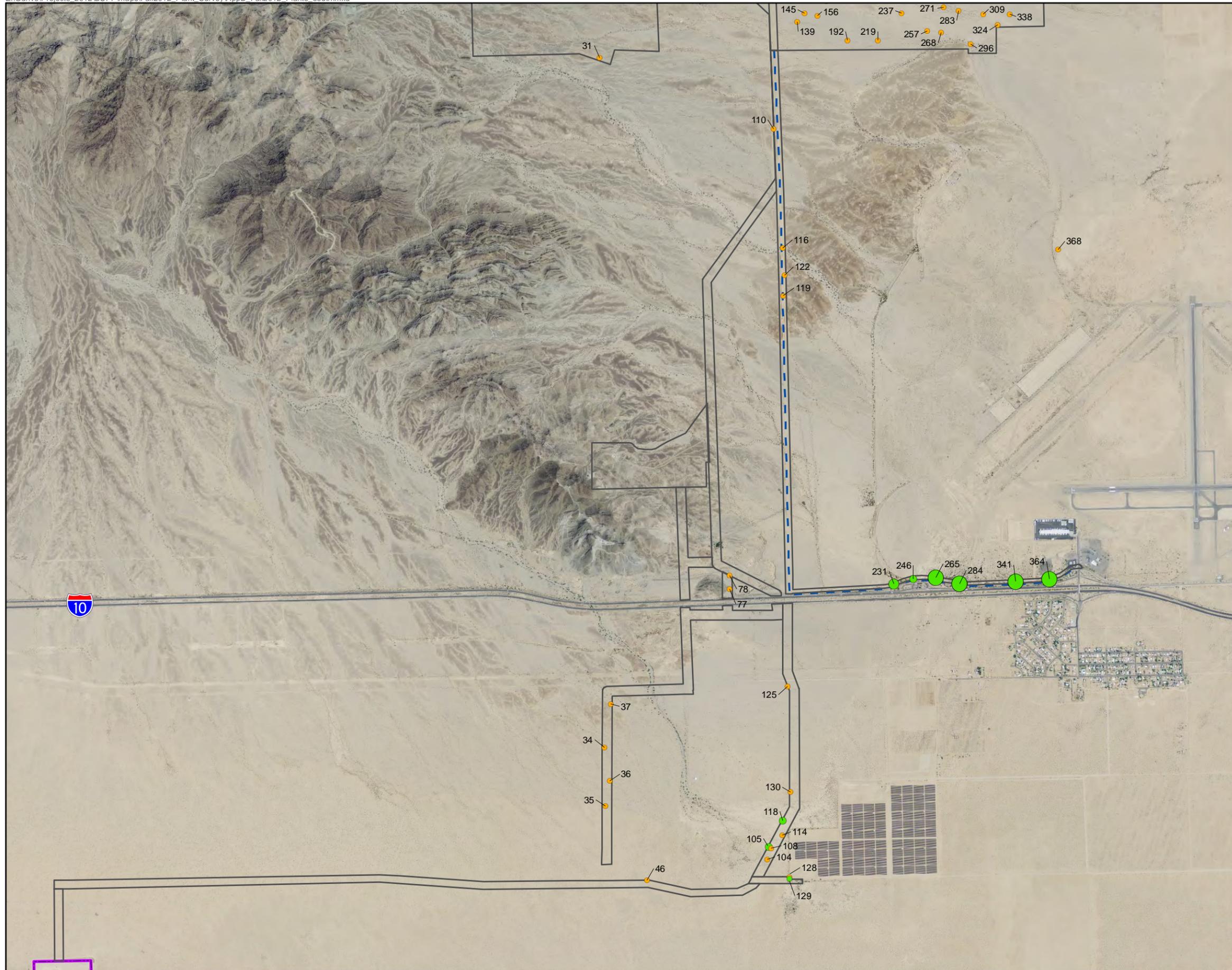
Observation numbers correspond to Table 1 in Appendix B.



Notes:
(a) UTM Zone 11, NAD 1983 Projection.
(b) Source data: USDA, TTEC

APPENDIX B SPECIAL-STATUS PLANTS OBSERVED AUGUST/SEPTEMBER 2012, PROJECT ROW





BLYTHE SOLAR POWER PROJECT RIVERSIDE COUNTY, CA

Legend

- Survey Area
- Access Road Shared with Other Solar Projects
- SCE Colorado River Substation

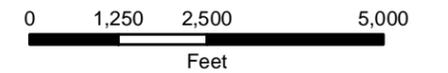
Plant Species

- Abrams' Spurge
- Desert unicorn plant

Number of Plants Observed

- <25 Plants
- 25-100 Plants
- 101-500 Plants
- 501-1,000 Plants
- >1,000 Plants

Observation numbers correspond to Table 1 in Appendix B.



Notes:
 (a) UTM Zone 11, NAD 1983 Projection.
 (b) Source data: USDA, TTEC

APPENDIX B SPECIAL-STATUS PLANTS OBSERVED AUGUST/SEPTEMBER 2012, LINEAR FACILITIES



APPENDIX C

Comprehensive List of All Plant Species Observed during August/September 2012 Field Surveys

Plant Species Observed at the Blythe Solar Power Project during August/September 2012 Plant Surveys	
<i>Adenophyllum porophylloides</i>	adenophyllum
<i>Allionia incarnata</i>	windmills
<i>Ambrosia dumosa</i>	white bursage
<i>A. (=Hymenoclea) salsola</i>	cheesebush
<i>Aristida adscencionis</i>	three-awn
<i>A. californica</i>	three-awn
<i>A. purpurea</i>	purple three-awn
<i>A. subulata</i>	rush milkweed
<i>Baileya pauciradiata</i>	desert marigold
<i>Bebbia juncea</i>	chuckwalla bush
<i>Boerhavia coulteri</i>	spiderling
<i>B. wrightii</i>	spiderling
<i>Bouteloua aristidoides</i>	needle grama
<i>B. barbata</i>	six-weeks grama
<i>Brandegea bigelovii</i>	desert starvine
* <i>Brassica tournefortii</i>	Sahara mustard
* <i>Bromus madritensis</i> var. <i>rubescens</i>	red brome
<i>Camissonia boothii</i> ssp. <i>condensata</i>	bottlebrush primrose
<i>C. boothii</i> ssp. <i>desertorum</i>	bottlebrush primrose
<i>Cercidium floridum</i> (= <i>Parkinsonia florida</i>)	blue paloverde
<i>C. micromera</i>	spurge
<i>C. polycarpa</i>	spurge
<i>C. setiloba</i>	spurge
<i>C. rigida</i>	rigid spinyherb
<i>Colubrina californica</i>	Las Animas colubrina
<i>Cryptantha angustifolia</i>	narrow-leaved forget-me-not
<i>Cylindropuntia</i> (= <i>Opuntia</i>) <i>echinocarpa</i>	silver cholla
<i>C. (=Opuntia) ramosissima</i>	pencil cholla
<i>Dalea mollis</i>	silk dalea
<i>D. mollissima</i>	silk dalea
<i>Dasyochloa</i> (= <i>Erioneuron</i>) <i>pulchella</i>	tluff grass
<i>Datura wrightii</i>	Jimsonweed
<i>Dicoria canescens</i>	desert dicoria
<i>Ditaxis lanceolata</i>	lance-leaved ditaxis
<i>D. neomexicana</i>	ditaxis
<i>Echinocactus polycephalus</i>	cottontop cactus
<i>Encelia farinosa</i>	brittlebush
<i>Eriogonum deflexum</i>	skeleton-weed
<i>E. inflatum</i>	desert trumpet
<i>E. trichopes</i>	little trumpet
<i>Euphorbia</i> (= <i>Chamaesyce</i>) <i>abramsiana</i>	Abrams' spurge
<i>Euphorbia eriantha</i>	beetle spurge
<i>Fagonia laevis</i>	California fagonbush
<i>Ferocactus cylindraceus</i>	barrel cactus
<i>Funastrum</i> (= <i>Sarcostemma</i>) <i>hirtellum</i>	hairy milkweed
<i>F. (=S.) cyanooides</i>	climbing milkweed
<i>F. (=Cynanchum) utahense</i>	Utah cynanchum
<i>Fouquieria splendens</i>	ocotillo
<i>Hesperocallis undulata</i>	desert lily
<i>Hibiscus denudatus</i>	rock hibiscus
<i>Hilaria</i> (= <i>Pleuraphis</i>) <i>rigida</i>	big galleta grass
<i>Hoffmannseggia glauca</i>	hognut

Plant Species Observed at the Blythe Solar Power Project during August/September 2012 Plant Surveys	
<i>Hyptis emoryi</i>	desert lavender
<i>Kallstroemia californica</i>	kallstroemia
<i>Krameria erecta</i>	little-leaf rhatany
<i>K. bicolor</i>	white rhatany
<i>Larrea tridentata</i>	creosote bush
<i>Lotus strigosus</i>	hairy lotus
<i>Lycium andersonii</i>	Anderson boxthorn
<i>Lycium pallidum</i> var. <i>oligospermum</i>	boxthorn
<i>Mammillaria tetrancistra</i>	fish-hook cactus
<i>Marina parryi</i>	parry dalea
<i>M. laevis</i>	four-o'clock
<i>Oenothera deltooides</i>	dune primrose
<i>Olneya tesota</i>	ironwood
<i>Opuntia basilaris</i>	beavertail cactus
<i>Palafoxia arida</i> (= <i>linearis</i>)	Spanish needle
* <i>Panicum antidotale</i>	blue panicgrass
<i>Pectis papposa</i>	chinchweed
<i>Perityle emoryi</i>	Emory rock daisy
<i>Peucephyllum schottii</i>	desert fir
<i>Phoradendron californicum</i>	mistletoe
<i>Plantago ovata</i>	plantain
<i>Porophyllum gracile</i>	odora
<i>Proboscidea althaeifolia</i>	desert unicorn plant
<i>Prosopis glandulosa</i>	honey mesquite
<i>Prunus fasciculata</i>	desert almond
<i>Psorothamnus emoryi</i>	Emory dalea
<i>P. spinosus</i>	smoke tree
* <i>Salsola tragus</i>	Russian thistle, tumbleweed
* <i>Schismus arabicus</i>	Mediterranean grass
<i>Senegalia</i> (= <i>Acacia</i>) <i>greggii</i>	catclaw acacia
<i>Sphaeralcea ambigua</i>	globe mallow
<i>S. emoryi</i>	Emory globe mallow
<i>Stephanomeria pauciflora</i>	wire-lettuce
<i>Tidestromia oblongifolia</i>	Arizona honeysweet
<i>Tiquillia plicata</i>	plicate coldenia
* <i>Tribulus terrestris</i>	caltrops, puncture vine
<i>Trianthema portulacastrum</i>	horse purslane
<i>Ziziphus obtusifolia</i> var. <i>canescens</i>	graythorn

APPENDIX D

Completed and Submitted CNDDDB Forms

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 09/01/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: Chamaesyce abramsiana

Common Name: Abrams' spurge

Species Found? Yes No _____ If not, why?

Total No. Individuals 118 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Alice Karl

Address: P.O. Box 74006
Davis, CA 95617

E-mail Address: heliophile@mindspring.com

Phone: (530) 304-4121

Plant Information

Phenology: _____% vegetative _____% flowering 100% fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

East of McCoy Mountains; west of Blythe

County: Riverside Landowner / Mgr.: BLM

Quad Name: _____ Elevation: 578 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy approx 10 m meters/feet

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

Coordinates: 0705707 3729671 (19 plants); 0705543 3729819 (33 plants); 0705682 3729844 (10 plants); 0705899 3729866 (10 plants); 0706025 3729917 (42 plants); 706201 3729957 (4 plants)

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Within shallow runnels within a braided ephemeral wash. Soils were mostly fine, sandy silt. Shrub/grass associates include Encelia farinosa, Hilaria rigida, Bouteloua barbata, Ambrosia dumosa, Larrea tridentata, Acacia greggii, Lycium andersonii, Parkinsonia florida, Krameria erecta. Herbaceous associates include Pectis papposa, Boerhavia wrightii, Chamaesyce polycarpa, C. micromera, Ditaxis neomexicana.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Not well used

Visible disturbances: Old two-tracks: ~ 0.75 mi west of old gas line road (Black Creek Rd.)

Threats: Brassica tournefortii present but uncommon

Comments:

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

- Keyed (cite reference): Jepson Manual (Note: originally developed search image using
- Compared with specimen housed at: reference population. Honed search image and
- Compared with photo / drawing in: microhabitats by finding many plants elsewhere
- By another person (name): and comparing to other congeners.)
- Other: Marc Baker, Tim Thomas, Suzanne Rhodes, Wendy McBride, Art Schaub

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 08/31/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: Chamaesyce abramsiana

Common Name: Abrams' spurge

Species Found? Yes No If not, why? _____

Total No. Individuals 2 Subsequent Visit? yes no

Is this an existing NDDB occurrence? yes, Occ. # _____ no unk.

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Alice Karl

Address: P.O. Box 74006
Davis, CA 95617

E-mail Address: heliophile@mindspring.com

Phone: (530) 304-4121

Plant Information

Phenology: _____% vegetative 100% flowering _____% fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

East of McCoy Mountains; west of Blythe

County: Riverside Landowner / Mgr.: BLM

Quad Name: _____ Elevation: 550 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy approx 10 m meters/feet

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

Coordinates: 706337 E 3728184 N

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Within a sandy, silty runnel bank surrounded by thick Boerhavia wrightii. Flat area in mid-bajada with many braided runnels. Shrub/grass associates include Hilaria rigida, Olneya tesota, Ambrosia dumosa. Herbaceous associates in addition to B. wrightii include Pectis papposa, Chamaesyce polycarpa, Kallstroemia californica.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Not well used

Visible disturbances: Old two-tracks: 0.4 mi west of old gas line road (Black Creek Rd.)

Threats: No immediate threats

Comments:

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

- Keyed (cite reference): Jepson Manual (Note: originally developed search image using
- Compared with specimen housed at: reference population. Honed search image and
- Compared with photo / drawing in: microhabitats by finding many plants elsewhere
- By another person (name): and comparing to other congeners.)
- Other: Michael Honer

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 09/01/2012

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: Chamaesyce abramsiana

Common Name: Abrams' spurge

Species Found? Yes No _____ If not, why?

Total No. Individuals 2,065+ Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk. Yes, Occ. # _____

Collection? If yes: _____ Number _____ Museum / Herbarium _____

Reporter: Alice Karl

Address: P.O. Box 74006
Davis, CA 95617

E-mail Address: heliophile@mindspring.com

Phone: (530) 304-4121

Plant Information

Phenology: _____% vegetative 10% flowering 90% fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

East of McCoy Mountains; west of Blythe

County: Riverside Landowner / Mgr.: BLM

Quad Name: _____ Elevation: 540 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy approx 10 m meters/feet

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

Coordinates: 706648 E 3729335 N (2,000+ plants within 170 square meters); 706802 3729312 (65 plants within 80 square meters)

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

2000+ plants located within a swale; remaining 65 plants located within a shallow runnel. Soils were mostly fine, sandy silt. Shrub/grass associates include Encelia farinosa, Hilaria rigida, Bouteloua barbata, Ambrosia dumosa, Larrea tridentata, Acacia greggii, Lycium andersonii, Parkinsonia florida, Krameria erecta. Herbaceous associates include Pectis papposa, Boerhavia wrightii, Chamaesyce polycarpa, C. micromera, Ditaxis neomexicana.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Not well used

Visible disturbances: Old two-tracks: 80-230 m west of old gas line road (Black Creek Rd.)

Threats: No immediate threats

Comments: Most plants fruiting; some in flower.

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

- Keyed (cite reference): Jepson Manual (Note: originally developed search image using
- Compared with specimen housed at: reference population. Honed search image and
- Compared with photo / drawing in: microhabitats by finding many plants elsewhere
- By another person (name): and comparing to other congeners.)
- Other: Neal Kramer, Michelle Cloud-Hughes, Tasva Herskovits

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
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Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 09/02/2012

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Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Chamaesyce abramsiana*

Common Name: Abrams' spurge

Species Found? Yes No _____ If not, why?

Total No. Individuals ~14,000+ Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk. Yes, Occ. # _____

Collection? If yes: _____ Number _____ Museum / Herbarium _____

Reporter: Alice Karl

Address: P.O. Box 74006
Davis, CA 95617

E-mail Address: heliophile@mindspring.com

Phone: (530) 304-4121

Plant Information

Phenology: _____% vegetative _____% flowering 100% fruiting

Animal Information

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

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

East of McCoy Mountains; west of Blythe. East/West stretch just north of Black Rock Road from the Valero gas station and the Blythe Solar Power Project graded access road.

County: Riverside Landowner / Mgr.: BLM

Quad Name: _____ Elevation: 400 ft

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy approx 10 m _____ meters/feet

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

Coordinates: 0709510 3721238 (35 plants); 0709351 3721199 (430 plants); 0709695 3721251 (1500+ plants); 0709885 3721200 (5,000 + plants); 0710342 3721222 (3000+ plants); 0710617 3721241 (4000+ plants)

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Within silty depressions and runnels north of Black Rock Road. Soils were mostly silty loam. Shrub/grass associates include Encelia farinosa, Hilaria rigida, Bouteloua barbata, Ambrosia dumosa, Larrea tridentata, Olneya tesota, Parkinsonia florida. Herbaceous associates include Pectis papposa, Boerhavia wrightii, B. coulteri, Chamaesyce polycarpa, C. micromera.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: Adjacent to Black Rock Rd.

Visible disturbances: I-10; Valero gas station, Black Rock Rd., Black Creek Rd.

Threats: Vehicle traffic

Comments: All plants were observed along a 1.3 mi stretch immediately north of Black Rock Rd. between the Valero gas station and the Blythe Solar Power Project graded access road.

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

- Keyed (cite reference): Jepson Manual (Note: originally developed search image using
- Compared with specimen housed at: reference population. Honed search image and
- Compared with photo / drawing in: microhabitats by finding many plants elsewhere
- By another person (name): and comparing to other congeners.)
- Other: Neal Kramer, Suzanne Rhodes

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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Sacramento, CA 95811

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Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 09/01/2012

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California Native Species Field Survey Form

Send Form

Scientific Name: *Chamaesyce abramsiana*

Common Name: Abrams' spurge

Species Found? Yes No If not, why? _____

Total No. Individuals 86+ Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Alice Karl

Address: P.O. Box 74006
Davis, CA 95617

E-mail Address: heliophile@mindspring.com

Phone: (530) 304-4121

Plant Information

Phenology: _____% vegetative _____% flowering 100% fruiting

Animal Information

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

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

South of I-10; east of Blythe near existing PV solar plant

County: Riverside Landowner / Mgr.: BLM

Quad Name: _____ Elevation: 578 ft

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy approx 10 m meters/feet

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

Coordinates: 708447E 3719276N (35+ plants); 708331 3719063 (50+ plants); 708501 3718801 (1 plant)

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Within a shallow runnels and swales. Soils were mostly fine silt. Shrub/grass associates include *Hilaria rigida*, *Bouteloua barbata*, *Ambrosia dumosa*, *Larrea tridentata*, *Parkinsonia florida*, *Olneya tesota*. Herbaceous associates include *Pectis papposa*, *Kallstroemia californica*, *Chamaesyce micromera*.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: OHV

Visible disturbances: PV solar plant; I-10; NavAid station; two-track dirt road

Threats: Brassica tournefortii present

Comments: Plants were dried and difficult to count. Population size is likely underestimated.

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

- Keyed (cite reference): Jewson Manual (Note: originally developed search image using
- Compared with specimen housed at: reference population. Honed search image and
- Compared with photo / drawing in: microhabitats by finding many plants elsewhere
- By another person (name): _____ and comparing to other congeners.)
- Other: Art Schaub; Michelle-Cloud Hughes; Tasya Herskovits; Suzanne Rhodes

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
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Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 08/23/2012

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Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 1603 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % vegetative 50 % flowering 50 % fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: McCoy Peak Elevation: Approx. 500 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin, various models

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: See attached list

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, *Parkinsonia florida*, *Senegalia greggii*, *Hilaria rigida*, *Encelia farinosa*, *Ambrosia dumosa*, *Krameria erecta*, *K. grayi*, *Boerhavia wrightii*, *Chamaesyce polycarpa*, *Marina parryi*, and *Ditaxis neomexicana*. This species was common and widespread. Individuals were observed primarily in silty sand of runnels and swales that collected water for a short period. Observations were made from 8/23 to 9/2/2012.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: some off-road vehicle use, agriculture, gas line/dirt road

Visible disturbances: Off-road tire tracks

Threats: solar development

Comments: Site would be good/excellent except for threat of proposed solar development. Population extends farther east of these locations in suitable habitat.

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
 Compared with specimen housed at: _____
 Compared with photo / drawing in: _____
 By another person (name): _____
 Other: Alice E. Karl and Associates

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
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Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 08/25/2012

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EO Index No. _____ Map Index No. _____

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California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100% vegetative _____% flowering _____% fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: McCoy Peak Elevation: Approx. 450 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 710691 3723916

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Ambrosia dumosa, Boerhavia wrightii, Chamaesyce polycarpa, and Pectis papposa. In silty sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: some off-road vehicle use, agriculture, gas line/dirt road

Visible disturbances: none

Threats: solar development

Comments: Site would be good/excellent except for threat of proposed solar development.

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

- Keyed (cite reference): The Jepson Desert Manual; Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: M. Honer, G. Robinson, E. Mix

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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 Elm Code _____ Occ. No. _____
 EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 09/01/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
 Yes, Occ. # _____

Collection? If yes: _____
 Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % vegetative 100 % flowering _____ % fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: McCoy Peak Elevation: Approx. 470 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 708370 3724897

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Krameria grayi, Bouteloua barbata, Chamaesyce polycarpa, C. micromera, and Pectis papposa. In sandy loam.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: some off-road vehicle use, agriculture, BSPP access road

Visible disturbances: BSPP access road

Threats: continued use of BSPP access road

Comments: Observed in middle of bladed Blythe Solar Power Project (BSPP) access road in tire tracks. Indicates tolerance of significant disturbance.

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Michael Honer, Kanan Routson

Photographs: (check one or more)

Plant / animal	<input type="checkbox"/>	Slide	<input type="checkbox"/>	Print	<input type="checkbox"/>	Digital	<input type="checkbox"/>
Habitat	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		
Diagnostic feature	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		

May we obtain duplicates at our expense? yes no

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Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 08/31/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010

Lakewood, CO 80228

E-mail Address: emily.mix@tetratech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % vegetative 100 % flowering _____ % fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: McCoy Peak Elevation: Approx. 470 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 706952 3725477

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Ambrosia dumosa, Krameria grayi, Chamaesyce polycarpa, C. micromera. In shallow runnel with silty sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: BSPP Access road

Visible disturbances: none

Threats: solar development

Comments: Site would be good/excellent except for threat of proposed solar development

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Kanan Routson

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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Sacramento, CA 95811
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Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 09/01/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No If not, why? _____

Total No. Individuals 8 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % 30 % _____ %
vegetative flowering fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM
Quad Name: McCoy Peak Elevation: Approx. 470 ft
T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 708451 3723541, 708461 3723707, 708447 3723930

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Allonia incarnata, Pectis papposa, Boerhavia wrightii. In silty sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: BSPP Access road

Visible disturbances: BSPP Access road

Threats: Continued use of BSPP Access road

Comments: In the middle of the graded BSPP Access road

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Kanan Routson, Michael Honer

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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Date of Field Work (mm/dd/yyyy): 09/02/2012

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 1 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % vegetative _____ % flowering _____ % fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: Roosevelt Mine Elevation: Approx. 400 ft

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 708486 3720364

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Chamaesyce polycarpa, C. micromera. In a flat area in a slight depression. Silty sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: gas line and distribution line

Visible disturbances: Existing utilities - gas line and distribution line

Threats: proposed solar development transmission line, utilities

Comments:

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

- Keyed (cite reference): The Jepson Desert Manual; Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Art Schaub, Alice Karl, Michelle Cloud-Hughes, Tasva Herskovits

Photographs: (check one or more)

Slide _____ Print _____ Digital _____
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 08/31/2012

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why? _____

Total No. Individuals 1 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk. Yes, Occ. # _____

Collection? If yes: _____ Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % 100 % _____ %
vegetative flowering fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: McCoy Peak Elevation: Approx. 570 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 706078 3727161

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, *Hilaria rigida*, *Encelia farinosa*, *Chamaesyce polycarpa*, *C. micromera*, *Boerhavia wrightii*, *Bouteloua barbata*, and *Pectis papposa*. In a runnel adjacent to desert pavement. Fine sand and gravel.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: none

Visible disturbances: none

Threats: solar development

Comments: Site would be good/excellent except for possible solar development

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Glenn Rink

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 08/31/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: Proboscidea althaeifolia

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 17 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010

Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % 100 % 50 %
vegetative flowering fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM
Quad Name: Roosevelt Mine Elevation: Approx. 425 ft
T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 708031 3721159, 708031 3721269

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Ambrosia dumosa, Encelia farinosa, Bouteloua barbata, B. aristoides, Chamaesyce micromera, and Kallstroemia californica. Within swale along roadside. Silt and sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: OHV

Visible disturbances: Black Rock Road

Threats: Off road travel

Comments: Area of past disturbance

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Kyle Christie, Marc Baker, Adam Hamburg, Wendy McBride

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 09/02/2012

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why? _____

Total No. Individuals 42 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetratech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % 100 % 100 %
vegetative flowering fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: Roosevelt Mine Elevation: Approx. 400 ft

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ 1/4 of _____ 1/4, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 708510 3719509, 708350 3719051, 708320 3718961, 708442 3719158, 708499 3718815

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Ambrosia dumosa, Cylindropuntia echinocarpa, Bouteloua barbata, Pectis papposa, Chamaesyce micromera, and Kallstroemia californica. Silt and sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: existing PV solar facility

Visible disturbances: two track roads, existing PV solar facility

Threats: proposed solar project transmission facilities

Comments:

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Art Schaub, Alice Karl, Michelle Cloud-Hughes, Tasya Herskovits

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

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Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 09/02/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why? _____
Total No. Individuals 9 Subsequent Visit? yes no
Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____
Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates
Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228
E-mail Address: emily.mix@tetrattech.com
Phone: (303) 980-3509

Plant Information

Phenology: 100 % 100 % 100 %
vegetative flowering fruiting

Animal Information

adults _____ # juveniles _____ # larvae _____ # egg masses _____ # unknown _____
 wintering breeding nesting rookery burrow site other

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

County: Riverside Landowner / Mgr.: BLM
Quad Name: Roosevelt Mine Elevation: Approx. 400 ft
T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS
T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin
DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet
Coordinate System: UTM Zone 10 UTM Zone 11 OR Geographic (Latitude & Longitude)
Coordinates: 706991 3719870, 707000 3719393, 707037 3719598, 707043 3720226

Habitat Description (plants & animals) plant communities, dominants, associates, substrates/soils, aspects/slope:
Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):
Larrea tridentata, Pleuraphis rigida, Ambrosia dumosa, Ditaxis neomexicana, Bouteloua aristidoides, Pectis papposa, Chamaesyce micromera, C. polycarpa, Brassica tournefortii, and Kallstroemia californica. In and on edge of sandy wash in silt and sand.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor
Immediate AND surrounding land use: I-10
Visible disturbances:
Threats: proposed solar project transmission facilities
Comments: Site would be good except for proposed solar project transmission facilities

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

 Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
 Compared with specimen housed at: _____
 Compared with photo / drawing in: _____
 By another person (name): _____
 Other: Kyle Christie, Marc Baker, Wendy McBride, Adam Hamburg

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature
May we obtain duplicates at our expense? yes no

Mail to:
California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811
Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

For Office Use Only

Source Code _____ Quad Code _____
Elm Code _____ Occ. No. _____
EO Index No. _____ Map Index No. _____

Date of Field Work (mm/dd/yyyy): 09/02/2012

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why?

Total No. Individuals 2 Subsequent Visit? yes no

Is this an existing NDDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100% % %
vegetative flowering fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: McCoy Peak Elevation: Approx. 600 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 705335 3729007, 705598 3729068

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, *Pleuraphis rigida*, *Encelia farinosa*, *Krameria erecta*, *Cylindropuntia echinocarpa*, *Ditaxis neomexicana*, *Pectis papposa*. Runnel within small braided wash; mostly silty soil.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: none

Visible disturbances: none

Threats: proposed solar project

Comments: Site would be good/excellent except for proposed solar project

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

- Keyed (cite reference): The Jenson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Tim Thomas, Marc Baker

Photographs: (check one or more) Slide Print Digital

Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no

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California Natural Diversity Database
Department of Fish and Game
1807 13th Street, Suite 202
Sacramento, CA 95811

Fax: (916) 324-0475 email: CNDDDB@dfg.ca.gov

Date of Field Work (mm/dd/yyyy): 09/02/2012

For Office Use Only

Source Code _____ Quad Code _____

Elm Code _____ Occ. No. _____

EO Index No. _____ Map Index No. _____

Reset

California Native Species Field Survey Form

Send Form

Scientific Name: *Proboscidea althaeifolia*

Common Name: desert unicorn plant

Species Found? Yes No _____ If not, why? _____

Total No. Individuals 5 Subsequent Visit? yes no

Is this an existing NDDB occurrence? no unk.
Yes, Occ. # _____

Collection? If yes: _____
Number _____ Museum / Herbarium _____

Reporter: Tetra Tech and Alice E. Karl and Associates

Address: 143 Union Blvd., Ste 1010
Lakewood, CO 80228

E-mail Address: emily.mix@tetrattech.com

Phone: (303) 980-3509

Plant Information

Phenology: 100 % 100 % 100 %
vegetative flowering fruiting

Animal Information

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

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

County: Riverside Landowner / Mgr.: BLM

Quad Name: _____ Elevation: Approx. 425 ft

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S Source of Coordinates (GPS, topo. map & type): GPS

T _____ R _____ Sec _____, _____ ¼ of _____ ¼, Meridian: H M S GPS Make & Model Garmin

DATUM: NAD27 NAD83 WGS84 Horizontal Accuracy Approximately 10 m meters/feet

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

Coordinates: 707338 3718791

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

Animal Behavior (Describe observed behavior, such as territoriality, foraging, singing, calling, copulating, perching, roosting, etc., especially for avifauna):

Larrea tridentata, Ambrosia dumosa, Pleuraphis rigida, Chamaesyce polycarpa, C. micromera, Brassica tournefortii. Sand/sand dunes.

Please fill out separate form for other rare taxa seen at this site.

Site Information Overall site/occurrence quality/viability (site + population): Excellent Good Fair Poor

Immediate AND surrounding land use: none

Visible disturbances: none

Threats: proposed solar project transmission line

Comments: Site would be good except for proposed solar project transmission line

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

- Keyed (cite reference): The Jepson Desert Manual: Vascular Plants of Southeastern CA.
- Compared with specimen housed at: _____
- Compared with photo / drawing in: _____
- By another person (name): _____
- Other: Alice Karl, Suzanne Rhodes, Michelle Coud-Hughes

Photographs: (check one or more) Slide Print Digital
Plant / animal
Habitat
Diagnostic feature

May we obtain duplicates at our expense? yes no