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California Energy Commission
Docket Unit
1516 Ninth Street
Sacramento, CA 95814-5512

Subject: **BLYTHE SOLAR POWER PROJECT WESTERN BURROWING OWL TECHNICAL REPORT**
DOCKET NO. (09-AFC-6)

Enclosed for filing with the California Energy Commission is the Blythe Solar Power Project Western Burrowing Owl Technical Report for the Blythe Solar Power Project (09-AFC-6).

Sincerely,

Alice L. Harron
Senior Director, Development

Solar Millennium LLC
1625 Shattuck Avenue, Suite 270
Berkeley, CA 94709-4611
tel (1) 510-524-4517
fax (1) 510-524-5516
Info@SolarMillennium.com
http://www.SolarMillennium.com

BLYTHE SOLAR POWER PROJECT
WESTERN BURROWING OWL TECHNICAL REPORT
RIVERSIDE COUNTY, CALIFORNIA

Prepared for:

Palo Verde Solar I, LLC
1625 Shattuck Avenue
Berkeley, California 94709

Prepared by:

AECOM
870 Emerald Bay Road, Suite 400
South Lake Tahoe, California 96150
Phone: (530) 543-5105
Fax: (530) 543-5150
Contact: Steve Henderson

June 2010

TABLE OF CONTENTS

Section **Page**

I. SUMMARY 1

II. INTRODUCTION 1
- A. Proposed Project and Reconfigured Alternative Location 2
- B. Proposed Project and Reconfigured Alternative Site 2
- C. Proposed Project and Reconfigured Alternative Description 3
- D. Purpose of Survey 6

III. BACKGROUND INFORMATION 7
- A. Regulatory Status 7
- B. Habitat Associations 7
- C. Population Status 7

IV. SURVEY METHODOLOGY 8

V. RESULTS 9

VI. REFERENCES CITED 12

ATTACHMENTS
1 Figures
2 Western Burrowing Owl Survey Data Form

LIST OF TABLES

Table **Page**

1 Wildlife Species Detected During Phase III Burrowing Owl Surveys 11

ATTACHMENT 1 – FIGURES

Figure

1 Regional Map
2 Proposed Project Disturbance Area
3 Reconfigured Alternative Disturbance Area
4 Burrowing Owls Survey Areas
5 Proposed Project Burrowing Owl Observations
6 Reconfigured Alternative Burrowing Owl Observations

I. SUMMARY

AECOM was contracted by Palo Verde Solar I, LLC, the Applicant, to perform environmental services to support the joint review process for the proposed Blythe Solar Power Project (BSPP or Project) located in Riverside County, California led by the California Energy Commission (CEC) and the Bureau of Land Management (BLM). AECOM completed biological surveys for the BSPP in 2009. After completion of the 2009 surveys and submittal of the Application for Certification (AFC) documents to CEC in 2009 (AECOM 2009a), an alternative site configuration was proposed for the BSPP and various Project design refinements were made related to potential transmission line routes and the substation area. Additionally, a Reconfigured Alternative was analyzed in the March 2010 CEC Staff Assessment/Draft Environmental Impact Statement (SA/DEIS). Several of the added or reconfigured Project elements are located outside of the 2009 survey area.

As a component of environmental services, protocol surveys for western burrowing owl (*Athene cunicularia*), which is designated as a species of special concern by the California Department of Fish and Game (CDFG), were conducted in 2010 to determine presence/absence, distribution and abundance, and breeding status of the species within the added areas of the Project Disturbance Area and Reconfigured Alternative, and within survey buffers associated with these features.

This technical report summarizes the methods and results of the 2010 western burrowing owl survey to support an update of the biological resources analysis presented in the 2009 AFC. Results of western burrowing owl surveys completed in 2009 for the original BSPP configuration were presented in a previous technical report (AECOM 2009b). During the 2010 surveys, one burrowing owl was observed at an active burrow on the Project site and three inactive burrows with various levels of burrowing owl sign were detected.

II. INTRODUCTION

The following terms will be used throughout this report:

- AFC Disturbance Area: This is the original Disturbance Area as reported in the AFC, submitted in August 2009.

- Project Disturbance Area: This is the current BSPP Disturbance Area that includes the entire Proposed Project footprint (area within solar plant site fence line including solar fields, power block, transmission facilities, office and maintenance buildings, laydown

area, bioremediation area, and leach fields). It does not include the Colorado River Substation (CRSS), which will be permitted, constructed and operated by Southern California Edison (SCE).

- Proposed Project Study Area: This includes current BSPP Disturbance Area plus additional areas surveyed during 2009 and 2010 but that ultimately will not be disturbed by the BSPP.

- Proposed Project BRSA: The Proposed Project BRSA includes the Project Disturbance Area, Proposed Project Study Area, and all associated buffers.

- Reconfigured Alternative Disturbance Area: The Reconfigured Alternative Disturbance Area encompasses the disturbance resulting from the proposed construction of the Reconfigured Alternative solar power blocks only (solar heat exchangers, steam turbine generator, and other components listed in the project description below), and their associated solar fields.

- Reconfigured Alternative BRSA: The Reconfigured Alternative BRSA includes the Reconfigured Alternative Disturbance Area and all associated buffers.

- Combined Survey Area: The Combined Survey Area is the Proposed Project BRSA and the Reconfigured Alternative BRSA. This encompasses all areas surveyed during 2009 and 2010 (the collective total area surveyed to date by AECOM for the BSPP).

A. Proposed Project and Reconfigured Alternative Location

The Proposed Project and Reconfigured Alternative would be located in the southern California inland desert, approximately 8 miles west of the City of Blythe, the majority of which (the solar plants) would be located approximately 2 miles north of the Interstate 10 (I-10) corridor in Riverside County, California (Figure 1). The Proposed Project and Reconfigured Alternative are proposed on primarily undeveloped open space.

B. Proposed Project and Reconfigured Alternative Site

The Proposed Project and Reconfigured Alternative site is nearly completely vacant and undeveloped land is owned by the Federal government and administered by the Bureau of Land Management (BLM). There is a 160-acre private parcel in the center of the Project Disturbance

Area that currently is not planned for use by the Proposed Project or Reconfigured Alternative. Another 160-acre parcel south of the Project Disturbance Area, but within the BRSA, is not planned for use by the Proposed Project or Reconfigured Alternative. There are no existing structures that would need to be demolished. The site is mostly flat, with elevation ranging on U.S. Geologic Survey (USGS) topographical maps from a high of about 670 feet above sea level at the southwestern limits of the site to a low of about 420 feet above mean sea level near the southeastern site boundary.

During World War II, the site was part of the General George S. Patton Desert Training Center, officially the California-Arizona Maneuver Area (CAMA), a simulated theater of operations. The site area was heavily used by tanks and other military vehicles. Nearby Blythe Airport was used as a CAMA training field. The 46th Bomb Group, and later the 34th Bomb Group, occupied nearby Blythe Airport, then known as Bishop Army Field, and flew training missions in a variety of military aircraft, including bombers.

C. Proposed Project and Reconfigured Alternative Description

Proposed Project

The Applicant is proposing to construct the BSPP, a nominal 1,000-megawatt (MW) commercial solar thermal power-generating facility. The Proposed Project would be located on a 9,405-acre right-of-way (ROW) owned by the Federal government and administered by BLM. Use of the Federal land would involve issuance of an ROW grant to the Applicant by BLM. The total Project Disturbance Area would be 7,025 acres (Figure 2). The total Proposed Project Study Area is 7,614 acres (Figure 2). The Proposed Project would use solar parabolic trough technology to generate electricity. With this technology, arrays of parabolic mirrors collect heat energy from the sun and refocus the radiation on a receiver tube located at the focal point of the parabola. A heat transfer fluid (HTF) is heated to high temperature (approximately 750 degrees Fahrenheit [°F]) as it circulates through the receiver tubes. The heated HTF is then piped through a series of heat exchangers where it releases its stored heat to generate high-pressure steam. The steam is then fed to a traditional steam turbine generator where electricity is produced.

The Proposed Project would have a nominal output of 1,000 MW, consisting of four independent 250-MW power plants (Units #1, #2, #3, and #4). The units would be developed in phases, with construction scheduled to begin in late 2010 on the first unit, which would come on line in mid-2013.

Each power block unit would have its own solar field, composed of piping loops arranged in parallel groups, and its own power block, centrally located within the solar field. Each power block would have its own HTF pumping and freeze-protection system, solar steam generator, steam turbine generator, air-cooled condenser for cooling, transmission lines and related electrical system, and auxiliary equipment (e.g., water treatment system, emergency generators, evaporation ponds). Major project components are identified below.

The BSPP would require a new transmission line. Transmission line features (e.g., crossing structures, pole pads, crane pads, pull sites, splice sites, spur roads, and an access road) would be located along an 8-mile transmission line corridor that extends to a point south of I-10 and then turns west. The transmission line and utility lines share the same corridor except where the transmission line jogs west on the north side of I-10. The transmission line will be connected to the new Colorado River substation that Southern California Edison (SCE) will be constructing as part of the strengthening and upgrading of its transmission network to support integration of renewable projects. Final placement and development of the substation would be the responsibility of the utility (i.e., SCE).

Access to the BSPP would be on a new road heading north from the frontage road along I-10. Only a small portion of the overall facility footprint would be paved, primarily the site access road, the service roads to the power blocks, and 6 acres of each of the 18-acre power blocks. The solar fields would remain unpaved and without a gravel surface to prevent mirror damage. The BSPP solar fields and support facilities perimeter would be secured with chain-link metal-fabric security fencing, controlled access gates, and 30-foot tall wind fences along the eastern and western boundaries.

Major Project Components

The major components and features of the Proposed Project (Figure 3) include:

- Solar Field and Power Block Unit #1 (northeast);
- Solar Field and Power Block Unit #2 (northwest);
- Solar Field and Power Block Unit #3 (southwest);
- Solar Field and Power Block Unit #4 (southeast);
- Access road including upgraded portion of Black Rock Road to onsite office;
- Office and parking;
- Land treatment unit (LTU) for bioremediation/land farming of HTF-contaminated soil;
- Warehouse/maintenance building, assembly hall, and laydown area;

- Onsite transmission facilities, including central internal switchyard;
- Natural gas pipeline;
- Telecommunications lines;
- Evaporation ponds;
- Dry wash rerouting; and
- Groundwater wells used for water supply.

Major components of each power block include:

- Steam generation heat exchangers;
- HTF overflow and expansion vessels;
- One auxiliary boiler;
- One steam turbine-generator (STG);
- One generator step up transformer (GSU);
- Air cooled condenser (ACC);
- One wet cooling tower for ancillary equipment;
- Water filter system and clarifier system;
- Combination firewater/clarified water tank;
- Potable water system;
- Demineralized water system;
- Demineralized water tank;
- High efficiency reverse osmosis (HERO) waste water recovery system;
- Recovered water surge tank;
- Evaporation waste stream pond(s);
- Water, natural gas, and HTF pipelines exiting the power block;
- Operations and maintenance buildings; and
- Transmission and telecommunications lines exiting the power block.

Reconfigured Alternative

At the request of the CEC, this report presents findings for the Reconfigured Alternative that was analyzed in the SA/DEIS. The Reconfigured Alternative would be a nominal 1,000-MW solar facility, similar to the Proposed Project. Three of the proposed solar power blocks (Units 1, 2, and 4) would remain at their proposed locations. These include the two northern solar fields and the southeastern solar field (Figure 3). Unit 3 (the southwestern solar field) would be relocated approximately 0.80 mile south of its proposed location (Figure 3). Approximately 480 acres of

the Reconfigured Alternative (a portion of Unit 3) would be outside of the ROW application area, but the alternative would remain entirely within the BLM managed lands.

It is important to note that the Reconfigured Alternative is not a complete engineering design. The Reconfigured Alternative Disturbance Area provides sufficient area for construction of four solar power blocks (and the components outlined above) only. It does not include areas for access roads, staging, office and management facilities, staging area, land treatment unit, dry wash rerouting, water supply, or transmission lines. The Reconfigured Alternative Disturbance Area would be 5,548 acres. The Reconfigured Alternative Disturbance Area encompasses the disturbance caused by construction of the solar power blocks and solar fields only; it does not include shared facilities and linears.

Major Reconfigured Alternative Components

The major components and features of the proposed Reconfigured Alternative include:

- Solar Field and Power Block Unit #1 (northeast);
- Solar Field and Power Block Unit #2 (northwest);
- Solar Field and Power Block Unit #3 (southwest); and
- Solar Field and Power Block Unit #4 (southeast).

Most of the Reconfigured Alternative overlaps with the Proposed Project and was surveyed during 2009. Unsurveyed portions of the Reconfigured Alternative were surveyed in spring 2010 and are included in the analysis of this BRTR.

D. Purpose of Survey

The purpose of the western burrowing owl survey was to determine the presence or absence, distribution and abundance, and breeding status of the species within the added areas of the Project Disturbance Area and Reconfigured Alternative Disturbance Area during the 2010 survey period (Figure 4). This information will be combined with data collected during the 2009 survey season and used to update the biological resources analysis in the Blythe Biological Resources Technical Report (BRTR), which includes quantifying potential impacts on burrowing owl and identifying appropriate avoidance, minimization, and mitigation measures.

III. BACKGROUND INFORMATION

A. Regulatory Status

Western burrowing owl is designated as a species of special concern (Priority 2 Bird Species of Special Concern) by CDFG due to rapid habitat loss and degradation from urbanization; it is also designated as sensitive by BLM.

B. Habitat Associations

Western burrowing owl habitat consists of annual and perennial grasslands, deserts, and scrublands characterized by low-growing vegetation (Zarn 1974; CBOC 1993; Haug et al. 1993). Suitable owl habitat may also include trees and shrubs if the canopy covers less than 30 percent of the ground surface (DeSante et al. 1996). Burrows are the essential component of burrowing owl habitat, and both natural and artificial burrows provide protection, shelter, and nests for burrowing owls. Burrowing owls typically use burrows made by mammals such as kit foxes (*Vulpes macrotis*), ground squirrels, or badgers, but also may use human-made structures such as cement culverts, cement asphalt or wood debris piles, or openings beneath cement or asphalt pavement (Collins and Landry 1977; Trulio 1994). Where the ranges of burrowing owl and desert tortoise (*Gopherus agassizii*) overlap, burrowing owls also use tortoise burrows.

C. Population Status

Burrowing owls in California are generally nonmigratory and most abundant in the Central and Imperial Valleys, primarily in agricultural areas (Center for Biological Diversity et al. 2003). Small, scattered populations occur in the Mojave Desert. Although the burrowing owl population in the southern desert region is primarily resident (i.e., present year-round), some migration from northern populations to this area occurs during winter (Center for Biological Diversity et al. 1993 citing Garrett and Dunn 1981). Seasonal non-migration movements and shifts in burrow use by juveniles and adults within a region also occur. Population density seems to be correlated with prey availability, particularly small mammals (Klute et al. 2003).

The California Natural Diversity Database (CNDDB) reports 132 occurrences of the western burrowing owl in Riverside County, concentrated in the west and west-central portions of the county. Prior to Project surveys conducted in 2009 and surveys conducted concurrently for the proposed Palen Solar Power Plant (22 miles to the west), the only documented recent western burrowing owl occurrences in eastern Riverside County were located outside the Project

Disturbance Area near Blythe, California (Center for Biological Diversity et al. 2003). As of 2002, Higson (cited by Center for Biological Diversity et al. 2003) characterized the western burrowing owl population near Blythe as "sparse" and estimated a maximum of 12 to 14 pairs in the summer and two wintering pairs. CNDDB reports six occurrences of western burrowing owl near Blythe; five were documented in 2002 and one was documented in 1987. The next closest records to the Project Disturbance Area are approximately 22 miles to the west at the proposed Palen Solar Power Plant site (two breeding pairs and their juveniles were documented during surveys conducted in 2009 by AECOM), and 80 miles to the west in west-central Riverside County.

IV. SURVEY METHODOLOGY

Burrowing owl surveys were performed according to the protocol established by the California Burrowing Owl Consortium (CBOC) (1993) and accepted by CDFG. The CBOC protocol requires that the disturbance area and a 492-foot (150-meter) buffer surrounding the disturbance area be surveyed. Additionally, CEC requires a habitat evaluation within a 1-mile buffer surrounding the disturbance area. The CBOC protocol involves three phases of surveys: Phase I is a habitat assessment to determine if suitable habitat for burrowing owl exists on site; Phase II involves mapping all potential burrowing owl burrows; and Phase III involves four repeat presence/absence focused surveys during the breeding season, and, if there are no detections, during the wintering season as well.

On February 17, 2010, Project biologists Arthur Davenport, Shelly Dayman, Gregg Lukasek, and Brooks Hart assessed the Proposed Project site for burrowing owl habitat (Phase I of the CBOC protocol). A burrow survey (Phase II of the CBOC protocol) was conducted in conjunction with focused surveys for desert tortoise from March 16 through May 17, during which the portions of the Project Disturbance Area and Reconfigured Alternative Disturbance Area, as well as other areas within the Proposed Project Study Area that were not surveyed in 2009, were surveyed by walking linear transects spaced 32.8 feet (10 meters) apart. Additional Phase II burrow surveys were conducted within the 492-foot buffer by surveying along line transects spaced at 98-foot intervals. Two additional CEC-recommended transects within the 1-mile buffer were also surveyed for suitable burrowing owl burrows in conjunction with desert tortoise protocol surveys. These transects were located at 3,960-foot (3/4-mile) and 5,280-foot (1-mile) intervals from and parallel to the edge of the Proposed Project and Reconfigured Alternative Disturbance Areas. Phase II burrow surveys were conducted by surveyors walking slowly and systematically along transects and, when visibility was limited, between transects, while visually searching for burrowing owls, their sign, and potentially suitable burrows. All burrowing owl observations, sign, and potentially suitable burrows (regardless of sign presence) were mapped using Global Positioning System (GPS) units and recorded on datasheets. Phase II burrow data also included

the type of burrow, if known (e.g., kit fox, desert tortoise); a GPS identity code; and the type of burrowing owl sign observed.

Project biologists Rob Conohan, Elizabeth Gruenstein, Jason Phillips, Veronica Wunderlich, and Dana Terry conducted Phase III surveys (western burrowing owl presence/absence surveys, census, and mapping) during the peak breeding season (April 15 to July 15, as defined in the CBOC protocol). Phase III surveys were initiated on May 2, 2010, and were completed on May 17, 2010. Phase III surveys consisted of a minimum of four site visits completed on separate days, and were conducted 2 hours before sunset to 1 hour after, or 1 hour before sunrise to 2 hours after, during the appropriate weather conditions. During the initial Phase III site visit, all burrows mapped during the Phase II survey were carefully examined for burrowing owl sign. The added areas of the Proposed Project Disturbance Area and Reconfigured Alternative Disturbance Area and their associated 492-foot buffers were surveyed three additional times during the breeding season to determine burrowing owl presence, focusing on burrows and burrow complexes with burrowing owl sign. Where possible, biologists scanned for owls using binoculars or spotting scopes at a distance from burrows. However, due to the terrain and long distance of most burrows from roads or other fixed observation locations, surveyors typically approached the burrows on foot, carefully verifying presence or absence of burrowing owls on their approach.

All Phase III survey data were recorded on data forms (Attachment 2). Data recorded included survey visit number (1 to 4), weather conditions (temperature, wind, precipitation, cloud cover), dimensions and characteristics of all burrows surveyed (height, width, estimated depth, single burrow or complex), presence or absence of owl sign (e.g., feathers, prey remains, pellets, whitewash), burrow occupancy status (active, inactive), notes on any burrowing owl detections (e.g., abundance, age, sex, behavior), and other wildlife species observed.

All burrowing owl observations and old or fresh burrowing owl sign were recorded on datasheets and mapped with GPS units. Old sign primarily included pellets that were bleached, desiccated, and disintegrated, and whitewash remnants that were sparse and partially eroded. In several cases, whether old whitewash remnants were from burrowing owls or other bird species was unknown; those signs were recorded as potential burrowing owl sign.

V. RESULTS

Habitat assessments conducted on February 17, 2010, per Phase I of the CBOC protocol, determined that the majority of the previously unsurveyed area within the Project Disturbance Area and Reconfigured Alternative Disturbance Area is considered suitable western burrowing

owl foraging and nesting habitat, with the exception of agriculture and developed land within buffer areas.

Figures 5 and 6 display the locations of western burrowing owls observed, active burrows (i.e., occupied by burrowing owls), and other locations where sign or potential sign were observed during the 2010 surveys. On May 12, 2010, one burrowing owl was observed at a burrow during western burrowing owl Phase II surveys in the buffer area along the western proposed transmission line (Figure 5); this location is within the Proposed Project BRSA but outside the Reconfigured Alternative BRSA. This active burrow had abundant and recent burrowing owl sign, and a burrowing owl was observed there subsequently during all four visits of the Phase III surveys. Earlier in the spring (April), one burrowing owl was incidentally observed flying across the road within the disturbance area near the eastern proposed transmission line by another survey team (Figures 5 and 6); this location is within an area where both the Project Disturbance Area and Reconfigured Alternative Disturbance Area overlap. No potentially active burrows were detected during Phase II and/or III surveys in surveyed areas adjacent to this detection; the detection is within approximately 1.25 miles of the active owl burrow discussed above.

Three burrows with various levels of burrowing owl sign but not occupied by burrowing owls (i.e., inactive) during the survey period were detected during the Phase II and Phase III surveys in 2010. The overall distribution and low density of burrows with sign of previous use by burrowing owl remained consistent with data collected in 2009. Much of the area surveyed in 2010 was in the western portion of the Combined Survey Area and located at the base of the McCoy Mountains. This area is characterized by steep, rocky canyons, desert wash, hard desert pavement, and cobble terrace substrate, which makes it difficult for fossorial mammals to excavate burrows. Consequently, few suitable burrows with sign of previous use by burrowing owl were detected during the 2010 surveys.

The presence of inactive burrows with burrowing owl sign suggests that portions of the Combined Study Area may have been used previously by western burrowing owls for breeding. Also, western burrowing owls may use a range of different satellite burrows irregularly during the breeding and non-breeding seasons. The length of time that burrowing owl sign can remain visible on the landscape is not known and is expected to vary with local precipitation, wind patterns, soil moisture, and other abiotic and biotic factors. Due to the generally dry conditions at the site, burrowing owl sign may persist for multiple seasons. Most of the burrows with burrowing owl sign had relatively small amounts of sign, indicating that 1) owls only used them for a brief period before vacating, or 2) previous use may have been more extended or regular but much of the original sign has disappeared. If the small amount of sign at most burrows is a

function of only temporary or infrequent use by western burrowing owls, the site may be used more during migration or other seasonal movements, or during winter. A low density of western burrowing owl on the Project site is consistent with the documented generally low abundance of burrowing owls in the surrounding region.

Table 1 includes a list of wildlife species detected during the Phase III protocol surveys. Two special status wildlife species were detected: loggerhead shrike (*Lanius ludovicianus*), which is designated as a species of special concern by CDFG; and desert kit fox (*Vulpes macrotis arsipus*), a State protected furbearing mammal (California Code of Regulations).

Table 1
Wildlife Species Detected During Phase III Burrowing Owl Surveys

Common Name	Scientific Name
Reptiles	
Zebra-tailed lizard	*Callisaurus draconoides*
Western whiptail	*Cnemidophorus tigris*
Sidewinder	*Crotalus cerastes*
Desert iguana	*Dipsosaurus dorsalis*
Long-nosed leopard lizard	*Gambelia wislizenii*
Desert horned lizard	*Phrynosoma platyrhinos*
Common side-blotched lizard	*Uta stansburiana*
Birds	
White-throated swift	*Aeronautes saxatalis*
Black-throated sparrow	*(Amphispiza bilineata)*
Gambel's quail	*Callipepla gambelii*
Turkey vulture	*Cathartes aura*
Lesser nighthawk	*Chordeiles acutipennis*
American crow	*Corvus brachyrhynchos*
Common raven	*Corvus corax*
Greater roadrunner	*Geococcyx californianus*
Horned lark	*Eremophila alpestris*
Barn swallow	*Hirundo rustica*
Loggerhead shrike	*Lanius ludovicianus*
Northern mockingbird	*Mimus polyglottos*
Ash-throated flycatcher	*Myiarchus cinerascens*
Black-tailed gnatcatcher	*Polioptila melanura*
Eurasian collared dove	*Streptopelia decaocto*
Tree swallow	*Tachycineta bicolor*
Violet-green swallow	*Tachycineta thalassina*
Mourning dove	*Zenaida macroura*
Mammals	
Coyote	*Canis latrans*
Black-tailed jackrabbit	*Lepus californicus*
Round-tailed ground squirrel	*Spermophilus tereticaudus*
Bat	Unknown bat species
Desert kit fox	*Vulpes macrotis arsipus*

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ATTACHMENT 1

FIGURES

Blythe Solar Power Project
Western Burrowing Owl
Technical Report

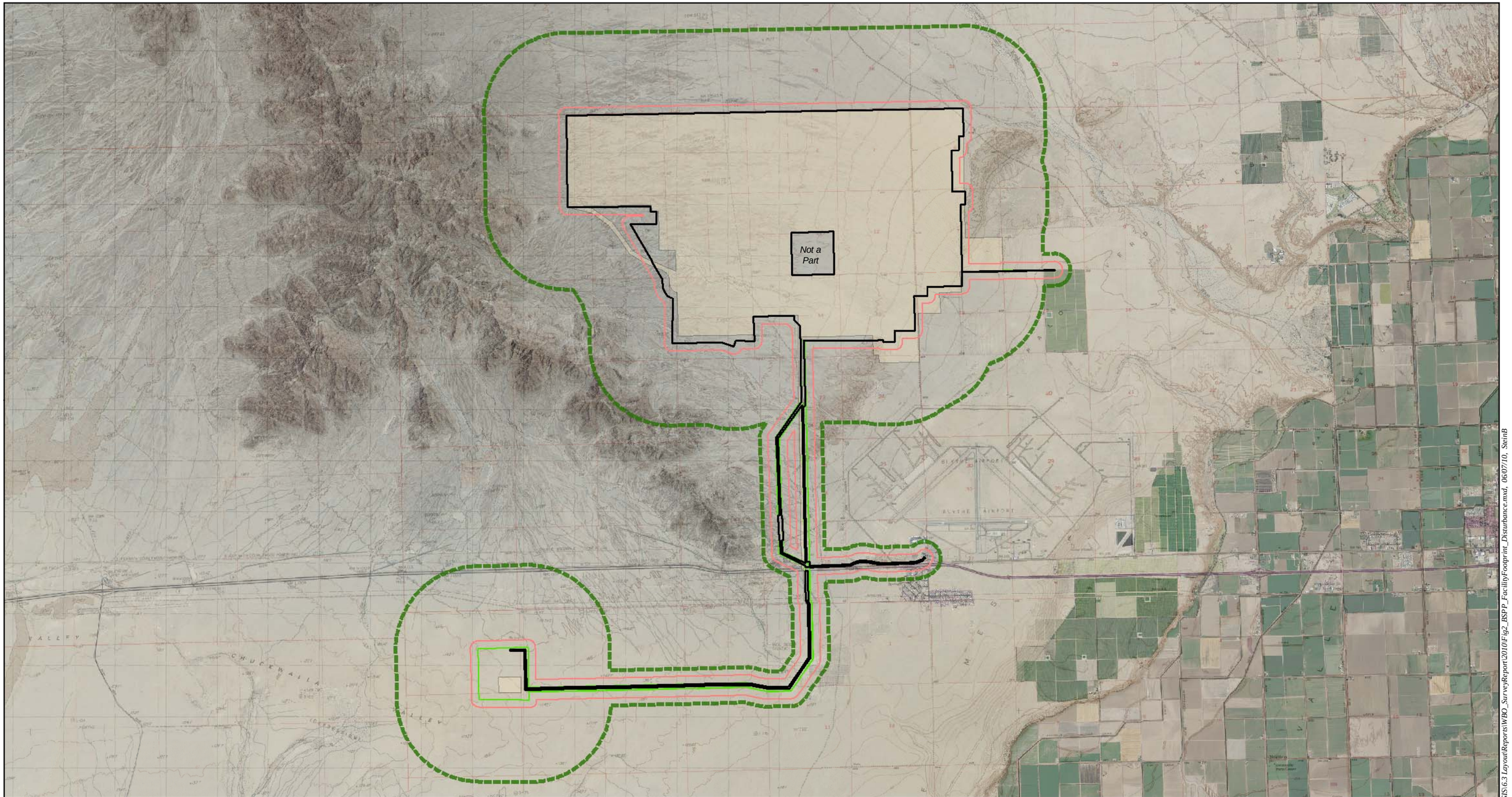
Figure 1
Regional Map

Source: ESRI; AECOM 2010

AECOM

Date: June 2010

Path: P:\2009\09080082 Sol Mil Blythe\6.0 GIS\6.3 Layout\Reports\WBO_SurveyReport\2010\Fig1_BSPP_RegionalLocation.mxd, 06/04/10, johnsonaa



Map Location

Legend

- Proposed Project Study Area (2010)
- Project Disturbance Area
- Proposed Project BRSA
- Burrowing Owl Survey Buffer - 492-foot
- Disturbance Area Surveyed 2009

Source: USGS; NAIP 2009; AECOM 2010

N W E S

1 in = 6,000 feet

0 6,000 12,000 Feet

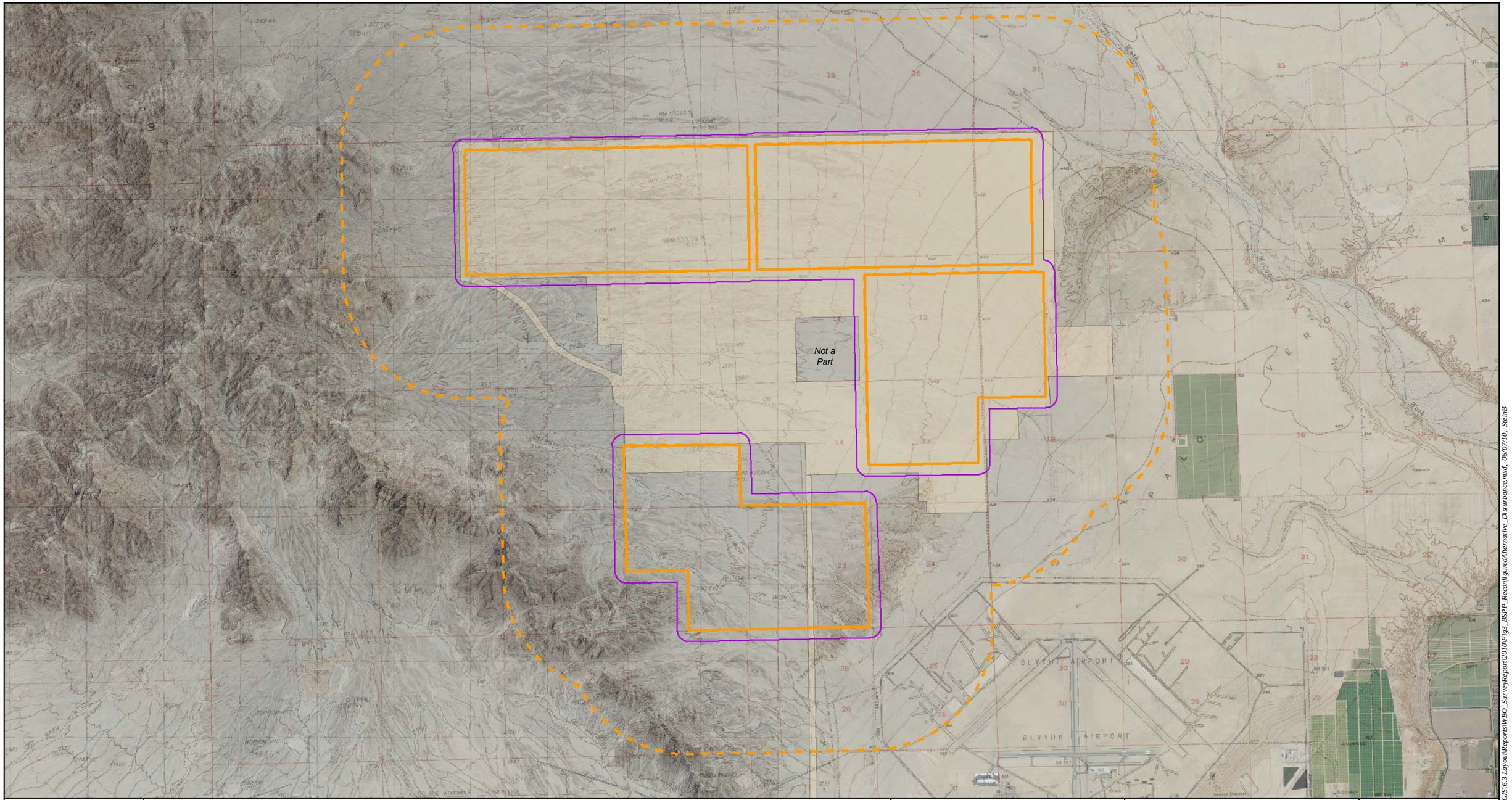
Blythe Solar Power Project
Western Burrowing Owl
Technical Report

Figure 2
Proposed Project Disturbance Area and Biological Resources Survey Area

AECOM

Date: June 2010

Path: P:\20090\60080082 Sol MII Blythe\6.0 GIS\6.3 Layout\Reports\WBO_SurveyReport\2010\Fig2_BSPP_FacilityFootprint_Disturbance.mxd, 06/07/10, SteinB



Map Location

Legend

- Reconfigured Alternative Disturbance Area
- Reconfigured Alternative BRSA
- Burrowing Owl Survey Buffer - 492-foot
- Disturbance Area Surveyed 2009

Source: NAIP 2009; AECOM 2010

N W E S

1 in = 4,000 feet

0 4,000 8,000 Feet

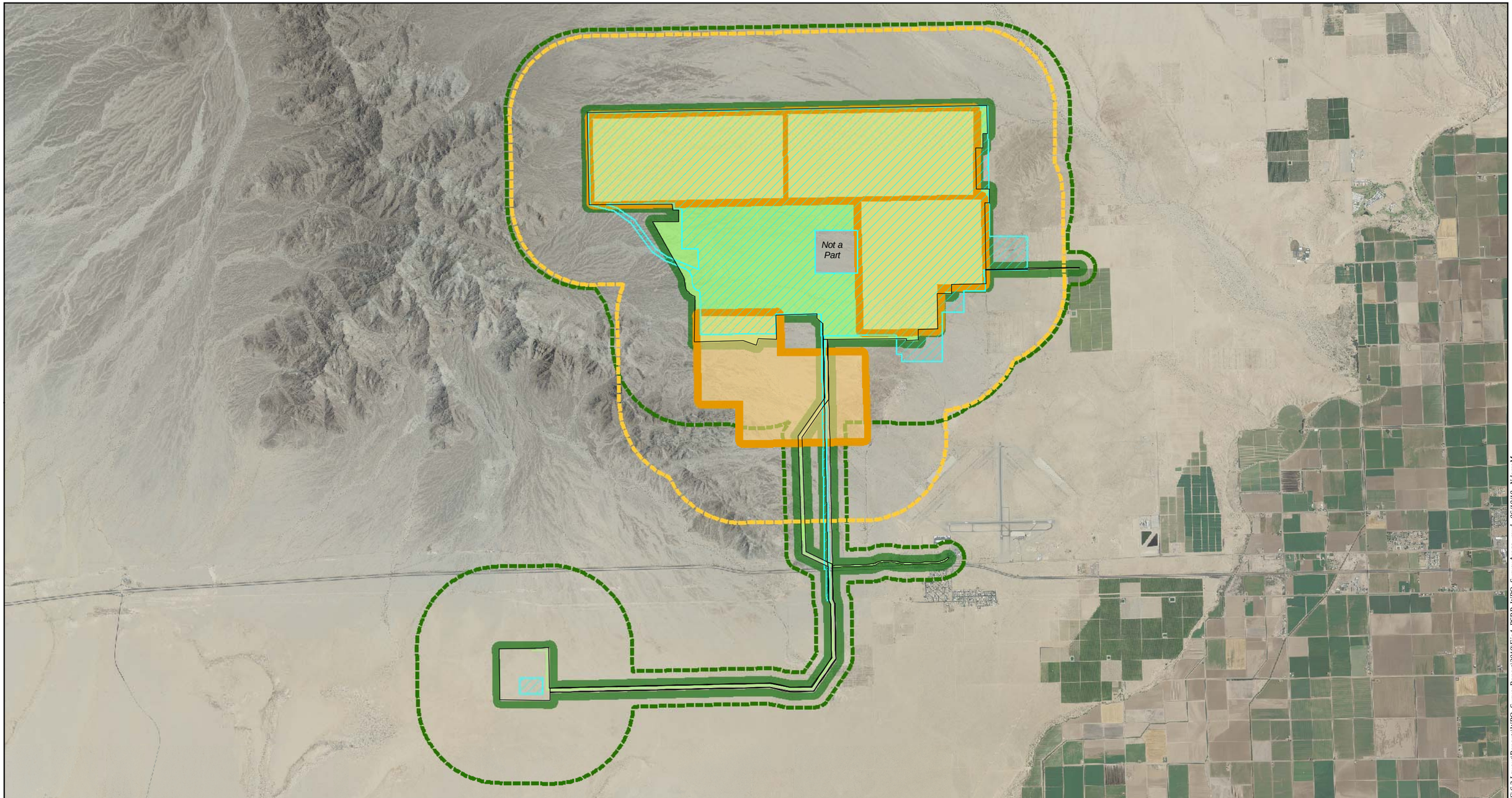
Blythe Solar Power Project
Western Burrowing Owl
Technical Report

Figure 3
Reconfigured Alternative
Disturbance Area

AECOM

Date: June 2010

Path: P:\2009\09080082 Sol Mil Blythe\6.0 GIS\6.3 Layout\Reports\WBO_SurveyReport\2010\Fig3_BSPP_ReconfiguredAlternative_DisturbanceAreas.mxd, 06/07/10, SteinB



Map Location

Legend

- Proposed Project Study Area
- Project Disturbance Area
- Burrowing Owl Survey Buffer - 492-foot
- Proposed Project BRSA
- Reconfigured Alternative Disturbance Area
- Burrowing Owl Alternative Survey Buffer - 492-foot
- Reconfigured Alternative BRSA
- Disturbance Area Surveyed 2009

Source: NAIP 2009; AECOM 2010

N W E S

1 in = 6,000 feet

0 6,000 12,000 Feet

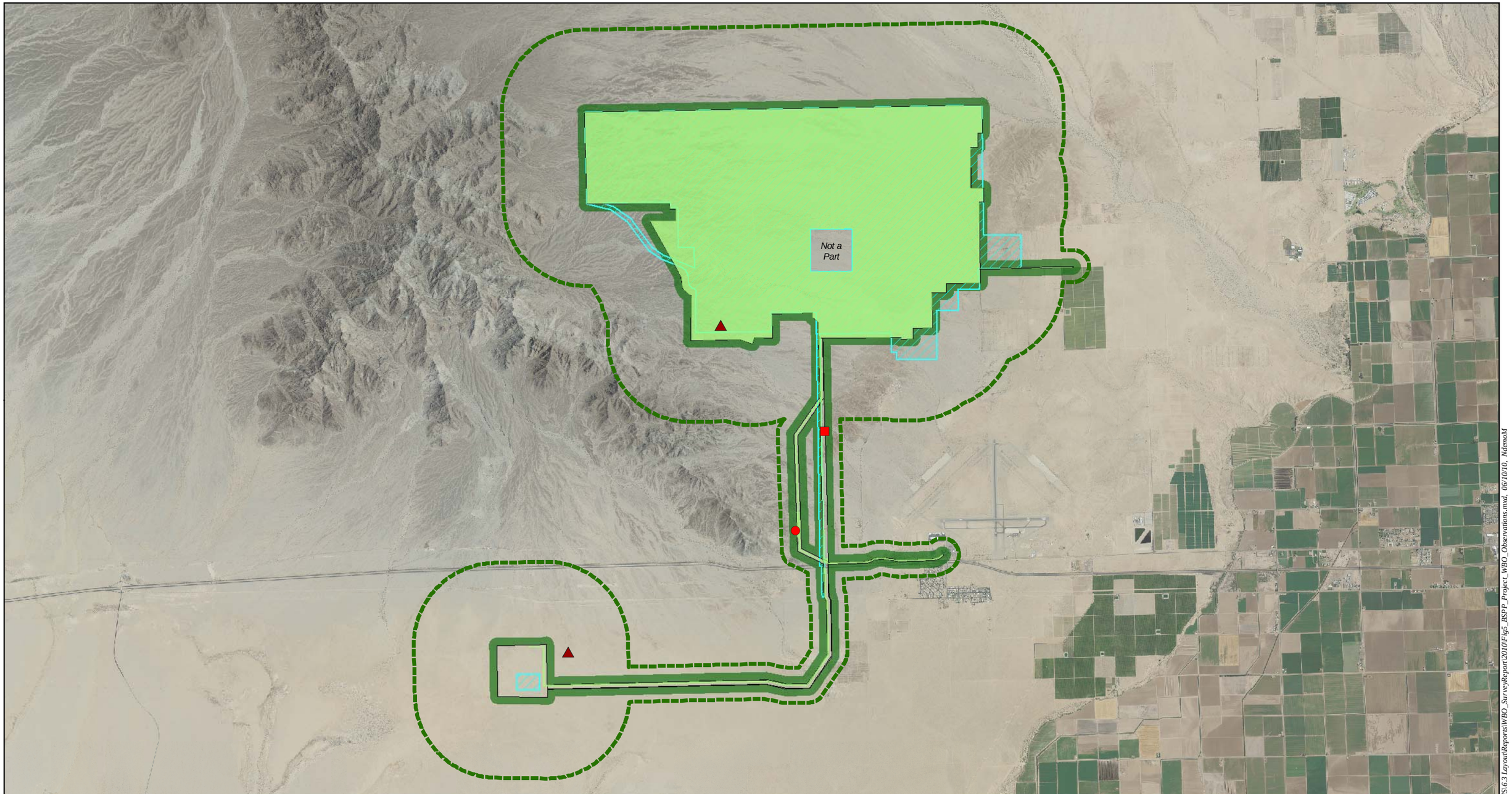
Blythe Solar Power Project
Western Burrowing Owl
Technical Report

Figure 4
Burrowing Owl Survey Areas

AECOM

Date: June 2010

Path: P:\20090/09080082 Sol Mil Blythe\6.0 GIS\6.3 Layout\Reports\WBO_SurveyReport\2010\Fig4_BSPP_WBO_SurveyAreas_.mxd, 06/10/10, NdemoM



Map Location

Legend

- Proposed Project Study Area
- Project Disturbance Area
- Burrowing Owl Survey Buffer - 492-foot
- Proposed Project BRSA
- Disturbance Area Surveyed 2009

Source: NAIP 2009; AECOM 2010

Western Burrowing Owl Observations 2010

- Western Burrowing Owl
- Western Burrowing Owl with Active Burrow
- Burrow with Sign

N W E S

1 inch = 6,000 feet

0 6,000 12,000 Feet

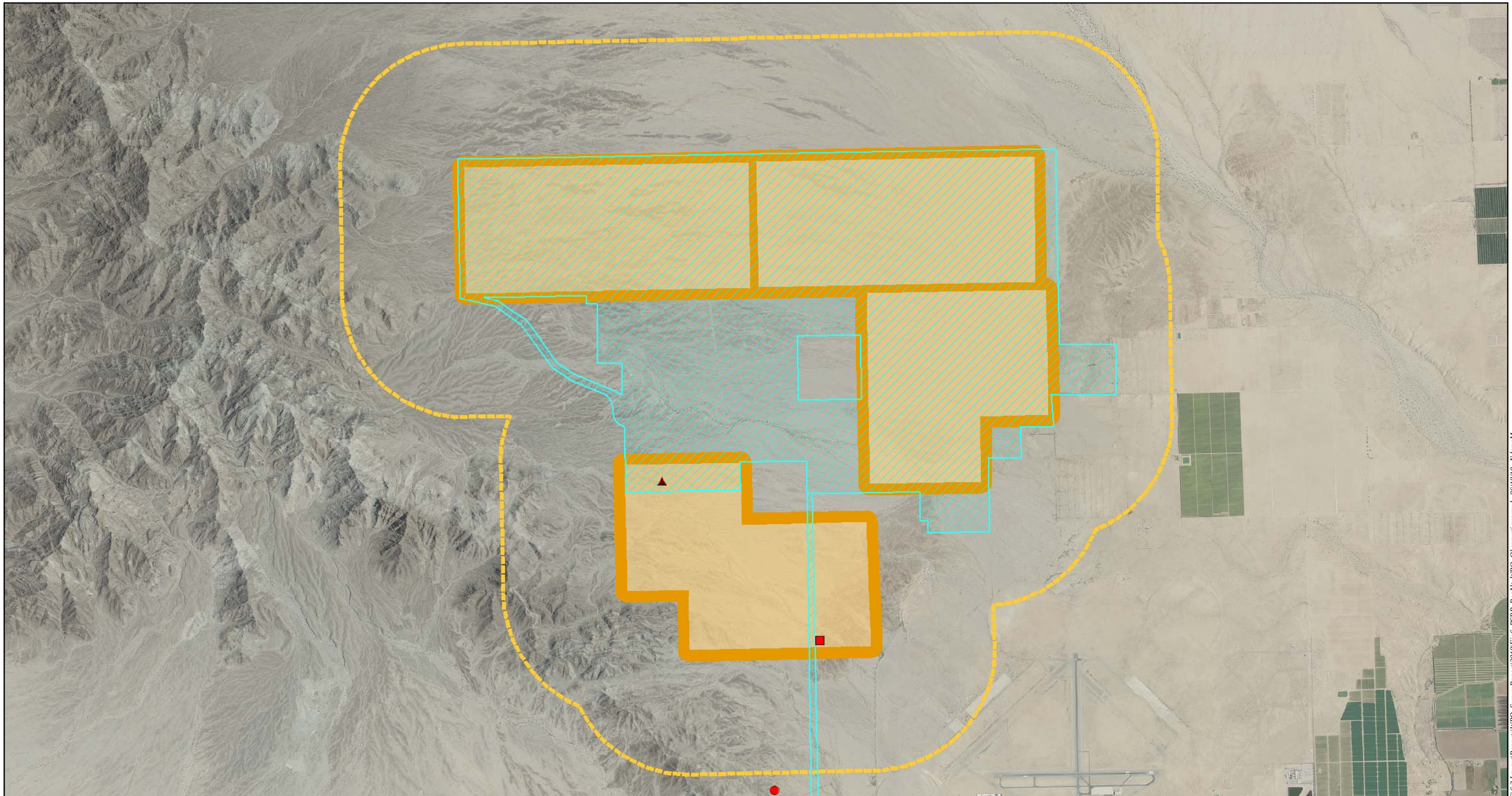
Blythe Solar Power Project
Western Burrowing Owl
Technical Report

Figure 5
Proposed Project
Burrowing Owl Observations

AECOM

Date: June 2010

Path: P:\60090908082 Sol Mil Blythe\6.0 GIS\6.3 LayoutReports\WBO_SurveyReport\2010\Fig5_BSPP_Project_WBO_Observations.mxd, 06/10/10, NdemoM



Map Location

Legend

- Reconfigured Alternative Disturbance Area
- Burrowing Owl Alternative Survey Buffer - 492-foot
- Reconfigured Alternative BRSA
- Disturbance Area Surveyed 2009

Western Burrowing Owl Observations 2010

- Western Burrowing Owl
- Western Burrowing Owl with Active Burrow
- Burrow with Sign

Source: NAIP 2009; AECOM 2010

N W E S

1 inch = 4,000 feet

0 4,000 8,000 Feet

Blythe Solar Power Project
Western Burrowing Owl
Technical Report

Figure 6
Reconfigured Alternative
Burrowing Owl Observations

AECOM

Date: June 2010

Path: P:\2009\09080082 Sol Mil Blythe\6.0 GIS\6.3 Layout\Reports\WBO_SurveyReport\2010\Fig6_BSPP_ReAlt_WBO_Observations.mxd, 06/10/10, NdemoM

ATTACHMENT 2

WESTERN BURROWING OWL SURVEY DATA FORM

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 15, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	Garmin 60Csx "B"	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:08AM	57°	0.0 mph	0	10%
End	8:06AM	62°	3.0 mph	0	20%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E7	BMAAD026	N	N	n/a	1	7"x9"	12"+	no	IA	beneath creosote photo 1
E7	BMASD008	N	N	n/a	1	7"x11"	12"+	no	IA	open by gravel path
E7	BMAADOOH	N	N	n/a	1	6"x8"	12"	no	IA	mound with shrub
E7	BMBADOO9	N	N	n/a	1	7"x7"	8"	no	IA	adjacent to creosote
E7	BMBMR006	N	N	n/a	1	7"x9"	18"	no	IA	in pile of fallen tree branches
E7	BGBAD001	N	Y	n/a	1	12"x16"	18"+	no	IA	Deep badger burrow
"	"	N	Y	n/a	1	6"x6"	2"	no	IA	Big badger burrow covered with brush - active
"	"	N	Y	n/a	1	6"x10"	18"+	no	IA	Under large bush; squirrel scat
E8	BGBSD001	N	N	n/a	1	15"x15"	12"+	no	IA	Under brush
E7	BMAACG010	N	Y	n/a 5	1	8"x12"	12"+	no	IA	beneath creosote
E7	"	Y	Y	same	1	8"x9"	8"+	no	IA	mammal burrow - new 2m SE
D7	BMAADOZZ	N	N	n/a	1	7"x11"	12"+	no	IA	beneath creosote

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? **Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.**

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM Site: Blythe Date: April 15, 2008 Surveyor: Mike Tacklind GPS Unit: Garmin 60 CSx "B"

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
	none							

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

none

Comments/Notes:

nice sunrise

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/15/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	JP + SH

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	06:30	55	0-5	0	5
End	~~08:08~~	~~64~~	~~10-15~~	~~0~~	~~0~~
	8:08	64	10-15	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-7	BMASD001	N	N		1	6, 3	10	None	—	non-functional burrow
F-7	BMAGL003	N	N		1	8, 3	3	none	—	non-functional burrow/filled in
F-7	BGBMR001	N	Y		1	12, 11	24+	none	IA	Cob webs in both, 2 burrows
F-7	BGBMR001	N	"		1	7, 7	24+	none	IA	see above
E-7	BMBMR003	N	N		1	7, 6	24+	None	IA	nice burrow, vegetation adjacent to N.
E-7	BMBMR005	N	N		1	12+, 12	24+	none	IA	In wash, Veg cover
E-7	BMBCG006	N	Y		1	6, 6	10	none	IA	on bank of wash, Veg cover
E-7	BMBCG007	N	N		1	8, 6	8	none	—	burrow not very deep
E-7	BMASD005	N	N		1	9, 8	18+	none	IA	under Creosote, photo001
E-7	BMAGL015	N	N		1	8, 7	24+	none	IA	Some/few Cobwebs, adjacent veg
E-7	BKBGL006	N	N		1	8, 10	24+	none	IA	under grass on bank of wash photo2
E-7	BGBGL002	N	N		1	9, 11	24+	none	IA	cobwebs, Scat near opening
E-7	BMATP001	Y	N	706030 3728682	1	7 7	12+	none	IA	side of bank in wash
E-7	BMATP002	Y	N	705921 3728693	1	6, 7	10	none	—	burrow is shallow on wash bank
E-7	BMAAD015	N	N		1	8, 6	11	none	IA	burrow larger at opening then goes off to left

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? **Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.**

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JB

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/15/2009 AM survey

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3		VG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:00	62°	~2 mph	0	10
End	7:45				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
~~F6~~	~~BMAD002~~	~~N~~	~~N~~		~~1~~					
F6	BMAD002	N	N		1	6/7	~~12~~ 16	NONE		<4" HOLE; OPENING CAVE IN
F6	BKBGL004	N	N		1	12/8	>12	NONE		NOT SUSPICIOUS; ENDS
F6	BMAGL002	N	N		1	8/6	>12	NONE		NARROWS, MAY CURVE, COULDN'T SEE END
F6	BKBAD005	N	N		1	7/9	>24"	NONE		NARROWS, MAY END >12" +W
F6	BKBAD007	N	Y (4)		1	6/7	>12"	NONE		DOESN'T STAY NARROW FOR 1st 24"
F6	BGBGL001	N	N		1	>24"/12"	>24"	NONE		DIRT SCAT IN FRONT & AROUND ~~THE~~ BURROW TO LFT OF CREOSOTE BUSH, ~~THE~~ 2ND BURROW BLOCKS MUCH OTHERS NOT SUSPICIOUS
F6	BMAD006	N	Y (2)		1	6/6	12"	NONE		
F6	BMBAD012	N	~~N~~ Y(2)		1	8/7	>24"	NONE		NARROWS, SEE END >12"; 2ND BURROW NOT SEEN OLD SCAT IN FRONT OF LARGER BURROW; 2ND BURROW MORE UNDERNEATH CRES. BUSH - NOT SUSPICIOUS
F6	BMBCG-004	N	N		1	9/9	12"	NONE		NARROWS & ENDS >12"
F6	BMBCG-005	N	N		1	5/6		NONE		SMALL SCALE OUTSIDE, ENTRANCE BLOCKED BY SEVERAL BARRELS & THINGS, CAN'T SEE INSIDE

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

556-5858

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** Apr. 1/15/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	SM Garmin A	RLC, KHL

		Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
AM	Start	5:50am	53.5	1.0 mph	0	20
	End	8:30am	~~58.9~~ 66.8	2.6 mph	0	20
PM	Start	5:05				
	End	7:42				

Potential BUOW Burrows:

	Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
AM Survey	F-5	BMAAD005	N	N	—	1	8x6	10"	NONE	~~PA~~ –	Possible use in future.
	F-5	BBPMR001	N	N	—	1	4x6	6"	NONE	~~PA~~ –	Another Burrow nearby w potential for use
	F-5	BMAGL008	N	N	—	1	6x6	12+"	NONE	~~PA~~ IA	Burrow curves to the right
	F-5	BMAGL009	N	N	—	1	6x4	—	NONE	~~PA~~ –	Kit Fox scat (old) outside of Burrow
	F-~~6~~ 4	BMAGL006	N	N	—	1	9x7	12"+	NONE	IA	Collapsed old kit fox ~~bobcat~~ scat
	F-5	BMAAD003	N	N	—	1	7x4.5	8"	NONE	~~PA~~ –	
PM Survey	F-5	BMAGL010	N	N	—	1	8x5	8"	NONE	~~PA~~ –	Collapsed
	E-5	BKBMR002	N	N	—	1	8x9	12"+	NONE	IA	Kit fox burrow
	E-5	BKBAD005 ~~BKAD~~ 7	N	N	—	1	7x8	12"+	NONE	IA	Kit Fox Burrow (2)
	E-5	BMACG006	N	N	—	1	~6x6	—	None	~~PA~~ –	Burrow under Palo Verde
	E-5	BMAAD012	N	N	—	1	7x6	>12"	None	IA	
	E-5	BMAAF003	N	N	—	1	4x6	6"	None	IA	Mouth of burrow Partially collapsed
	E-5	BMAAD013	N	N	—	1	2x5	6"	None	~~PA~~ –	Small but may be excavated for BUOW use
	E-5	BMACG007	N	N	—	7	8x5	6"	None	—	

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): RLC, 4/15/09 *Approved by team leader (initials, date):*

Project: SM Site:_____ Date: _____ Surveyor: _____ GPS Unit: _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D-5	BKBGL016	N	N	—	1	7x8	10"	NO	IA	~~Couldn't find~~ BKBGL002
D-5	BKBGL002	N	N	—	1	8x7	10"	NO	IA	@ Base of Lorma
D-5	BKBSD002	N	N	—		7x9	>12"	NO	IA	Fit For Burrow

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blytho Date: April/15/09 Surveyor: RLC, KHL GPS Unit: ~~[illegible]~~ SM Garmon A

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

~~BTJR~~ Black-tailed Jackrabbit
KIT Fox scat
coyote Burrow
CORA
(*) - Barrel Cactus BFSKH001 0707145 3729628 - picture # 162
Common Nighthawk

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/15/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0640 AM	58	0-8 avg	none	5
End	0808 AM	69	3-0 avg	none	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-6	BMAAD025	N	N	—	1	12/6	0	—	—	Burrow has been filled / collapsed, not suitable Photo 001
F-6	BKBMR001	N	Y	—	1	9/12	>18	—	IA	Burrow complex, no BUOW sign
E-6	BMBMR002	N	N	—	1	10/9	>18	—	IA	Badger den
E-6	BMBAD010	N	Y	—	1	10/8	0	—	—	3 Badger foraging burrows, all end immediately
E-6	BMBAD011	N	N	—	1	6/4	4	—	—	Burrow ends, not suitable
E-6	BMBGG008	N	N	—	1	8/6	>18	—	IA	Partially overgrown w/ veg
E-6	BMAAD010	N	Y	—	1	10/11	>18	—	IA	2 Burrows
E-6	BMACG004	N	N	—	1	8/8	?	—	—	Enclosed under vegetation Photo 003
E-6	BMACG002	N	N	—	1	6/6	?	—	—	fully enclosed under creosote Photo 002
E-6	BMAAD011	N	N	—	1	8/8	12	—	—	Burrow ends - not suitable
E-6	BMAAD021	N	N	—	1	6/6	6	—	—	Burrow ends - not suitable
E-6	BMACG005	N	N	—	1	7/4	>18	—	—	Burrow constricts to a very small size, not suitable
F-6	BMAAD027	N	Y	—	1	8/4	>18	—	—	2 Burrows, constrict to very small not suitable

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? **Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): DT 4/19 ***Approved by team leader (initials, date):*** R

Project: SM Site: Blythe Date: 4/15/09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Horned lark, common night hawk
1 kit fox observed at burrow BBBGL002

Comments/Notes:

Reviewed by surveyor (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/15/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:08 PM	65	10	none	5
End	8:00 PM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-6	BKBAD006 1	N	Y	—	1	8/6	0	—	—	3 disused mammal burrows, all filled in.
E-6	BMASD007 1	N	N	—	1	8/8	8	—	—	Mammal den built of veg in wash
E-6	BMAAD009	N	N	—	1	8x6	?	—	—	Burrow in small drainage channel under bush. Cannot see into burrow to tell depth.
E-6	BMAAD014	N	N	—	1	12x12	?	—	—	Burrow well concealed at base of bush. Cannot see into burrow to tell depth.
E-6	BMASC002	N	Y	—	1	10x8	9	—	—	Two disused burrows, both end.
D-6	BDBGG001	N	N	—	1	12x8	>18	—	IA	Burrow on side of drainage channel, mostly surrounded by veg.
D-6	BMACG017	N	N	—	1	10x8	>18	—	IA	"
D-6	BMAGL029	N	Y	—	1	10x10	>18	—	IA	2 burrows, 1 ends, other is suitable B now burrow
D-6	BMAMR007	N	Y	—	1	8x8	>18	—	IA	2 burrows, both suitable
D-6	BMASC006	N	N	—	1	24x12	12	—	—	Large burrow, but ends after ~12 in
D-6	BMASD013	N	N	—	1	8x10	>18	—	IA	On side of drainage channel, mostly surrounded by veg.
D-6	BMADT001	Y	N	705178 3728978	1	6x6	>18	—	IA	1 burrow in middle of pavement
D-6	BMAMR002	N	N	—	1	8x6	>18	—	IA	Suitable burrow
E-6	BKBCG003	N	Y	—	1	12x10	6	—	—	3 burrows, all end

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): DT 4/18/09 *Approved by team leader (initials, date):* 4/18/09

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blyth **Date:** 4/15/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	KHL, RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	1805	62.3	10.9/15.1 mph	Ø	10%
End	20:05				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-5	BMASD002	N	N	—	1	5.5"W/5"H	8"L	None	~~IA~~	- heavy debris on apron & @ openings, no sign present
F-5	BMAGL005	N	N	—	1	8"W/6"H	6.5"L	None	~~IA~~	- appears to be dug by badger, no BUOW sign
E-5	BMBCG002	N	N	—	1	6"W/4"H	8"L	None	~~IA~~	- burrow made by badger, no BUOW sign
E-5	BMBCG001	N	N	—	1	5"W/4"H	7"L	None	~~IA~~	- mammal burrow, sign of K-rat, no BUOW sign
E-5	BMAAD007	N	N	—	1	9"W/7"H	4.5"L	None	IA	- made by badger, would need modification to be utilized by BUOW
E-5	BMAKH005	Y	N	0706378 3729422	1	8"W/6"H	9"L	P	~~PA~~ PA	- appears to be in-active, but future BUOW use is possible
E-5	BMAAF004	N	N	—	1	7"W/4.5"H	8"L	None	~~IA~~	- heavy debris in front & inside of burrow, not in use
E-5	BMACG011	N	N	—	1	collapsed	—	None	~~IA~~	- mammal burrow, no BUOW sign, heavy deterioration
E-5	BMAGL021	N	N	—	1	7"W/4"H	7"L	None	~~IA~~	- partial burrow, collapsation, possible future BUOW use if modified, currently inactive, no BUOW sign
D-5	BMAGL025	N	N	—	1	8"W/8"H	12"+L	None	~~PA~~ IA	- possibly active, used by mammal or DETO (large enough) @ this time
D-5	BMACG016	N	N	—	1	7"W/6"H	9"L	None	~~IA~~	- not in use by BUOW
D-5	BMASD010	N	N	—	1	7"W/8"H	12"+L	None	IA	- could be used by BUOW, dug out by predator, large amounts of debris near entrance
D-5	BMAGL032	N	N	—	1	9"W/9"H	12"+L	None	IA	- dug out by predator, could be used by BUOW, found w/in heavy growth

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[3] Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JB

		NEW BURROW Y/N	BURROW COMPLEX Y/N	GPS COORD FOR NEW	VEGET #	BURROW W/H (IN)	EST BURROW DEPTH (IN)	BURROW OR SIGN PRESENT	BURROW STATUS A, PA, IA	COMMENTS
	BG009	N	N		1	4/4	12"	NONE	~~IA~~	NARROWS @ 12"
	MAG014	N	N		1	10/10	12>	NONE	IA	MAY TURN TO LEFT
EG	BMAC005	N	N		1	8/6	12"	NONE		NARROWS TO <4 ~6" IN
EG	BMAA021	N	N		1	6/6	6"	NONE		UNDER CRES. BUSH; CAN ONLY SEE IN 6" OR SO, MAY NARROW
DG	BKE0001	N	N		1	6/5	6>	NONE		TURNS TO LEFT, CAN'T SEE IN 6" ONLY
DG	BMAG024	N	N		1	5/6	12">	NONE		NARROWS @ 12" IN
DG	BDAA005	N	N		1	24/18	24">	NONE	IA	TURNS LEFT + NARROWS, BUT LOOKS WIDE ENOUGH
DG	BMAS005	N	N		1	6/4	12"	NONE		MAY END – SLIGHT TURN TO LEFT
DG	BMAMR005	N	N		1	6/4 (W/G EB)	12>	NONE	IA	CAN'T SEE END
DG	BMAMR003	N	Y		1	5/12		NONE	IA	FOUND 4 POSS BURROWS OF 6">, OTHERS ARE SMALLER OR END COYOTE SCAT – SOME LOOK FRESH (ER)
~~DG~~	~~BMAMR002~~									

VG 4/15/2009
Blythe PM Survey
SM Bnow
5 pm - 8 pm
65°F, ~10 mph wind
clear

4/15/09

Ph	GPS	Surveyor						
3	B	Mike Ireland	Start	5:08 PM	65°	10mph	0	5%
			End	8:08 PM	53°	0mph	0	0%

Sheet	ID	New?	Complete?	Coord	Vis.#	Dim (Width x height)	Blow?	A, PA, IA?	Notes
D7	BMAGL023	N	N	n/a	1	18"+ 9" x 5"	no	IA	adjacent to wash
D7	BKBGL015	N	N	n/a	1	16" 8" x 9"	no	IA?	out in open
D7	BMACG013	N	N	n/a	1	12"+ 5" x 9"	no	IA	sheltered by large bush
D7	BMACG012	N	N	n/a	1	12"+ 9" x 9"	no	IA	Surrounded by shrub 3 sides left & right turns @ 12"
D7	BMASC004	N	N	n/a	1	12"+ 12" x 12"	no	—	Covered by tree
~~D7~~	~~BDBGL012~~	~~N~~	~~N~~	~~n/a~~	~~1~~	~~6" 7" x 6"~~	~~no~~	~~—~~	~~could be used as refuge~~
D7	BBBSD001	N	N	n/a	1	24"+ 11" x 8"	pellets feathers	A	no wash; pellets drying
D7	BMAMR009	N	N	n/a	1	18" 10" x 12"	no	—	under creosote
D7	BMACG015	N	Yes-3	n/a	1	30"+ 12" x 14"	no	IA	very deep
"	"	N	"	n/a	1	6" 8" x 8"	no	—	shallow
"	"	N	"	n/a	1	24"+ 7" x 8"	no	IA	~~shallow~~ deep burrow
D7	BMAMR004	N	N	n/a	1	48"+ 8" x 12"	wash	A	very deep; active

Done

JP 4/16/09

JF

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/16/09 PM Survey

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	17:08 ~~17:05~~	65°	10 mph	0	~5
End	20:00		15 mph		

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-13	BD BKH001	N	N		1	10, 7	18+	none	IA	adjacent to wash
F-12	BKBKD001	N	N		1	10, 8	18+	none	IA	nice burrow, clear of veg, photo 7
F-11	BKBKH001	N	N		1	11, 12+	18+	none	IA	large burrow, photo-8
F-11	~~BMKH004~~									
F-11	BKBKH002	N	N		1	10, 9	18+	none	IA	cobwebs, photo -9
F-11	BMAJJ005	N	N		1	10, 12	18+	none	IA	eroded, large burrow
E-9	BMAGL017	N	N		1	10, 11	18+	none	IA	
D-7	BBBSD001	N	N		1	10, 8	18+	~~none~~ W?	~~IA~~ A?	below creosote, sign (lots of whitewash)

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[2] or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.
[3]atus: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by s, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 4/20

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/16/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	P	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:45AM	45	2	—	5
End	8:15 AM	58	1-5	—	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G-13	BMASD003	N	N	—	1	12x10	12	—	—	Burrow constricts to ~ 1x1 after 12in.
F-10	BDBRW002	N	Y	—	1	8x8	12	—	—	2 burrows, both end after 12 in
F-10	BBBRW001	N	N	—	1	10x8	>18	W, P	A	Buow sign abundant and fresh Photo 002
F-10	BBBGL001	N	N	—	1	8x8	>18	W, P	PA	Buow sign old, cobwebs over burrow entrance, likely disused satellite of BBBGL001 (~10m away) Photo 001
F-10	BKBKH001	N	N	—	1	8x6	9	—	—	Burrow ends after 9 in.
F-10	BKBRW001	N	N	—	1	8x8	>18	—	IA	Under branches of small creosote
F-9	BKBRW002	N	N ~~Y~~	—	1	8x8	>18	—	IA	Burrow makes leftturn, then constricts
F-9	BKBSD005	N	N	—	1	8x8	>18	—	IA	Sizeable burrow, suitable
F-9	BKBKD002	N	N	—	1	6x6	10	—	—	Burrow ends
F-9	BDBSD005	N	N	—	1	12x8	>18	—	IA	Burrow below shrubs
F-9	BKBGL007	N	N	—	1	8x8	>18	—	IA	Burrow below shrubs
F-9	BKBKD003	N	N	—	1	10x8	~20	—	—	Burrow ends after ~20 in
F-9	BKBSD010	N	N	—	1	8x8	>18	—	IA	Suitable burrow.
F-9	BMAGL018	N	N	—	1	8x6	>18	—	IA	Burrow makes right turn, may end
F-10	BMASC013	N	N	—	1	8x10	16	—	—	Burrow ends

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Reviewed by surveyor (initials, date): DT 4/19 *Approved by team leader (initials, date):*

Project: SM Site:_____ Date: _____ Surveyor: _____ GPS Unit: _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-10	BMAKH002	N	N	—	1	8x8	12	—	—	Small mammal hide under bushes, ends quickly
F-11	BKBKH003	N	Y	—	1	8x8	>18	—	IA	2 burrows, 1 ends, other is suitable
F-11	BMAKH003	N	N	—	1	10x8	12	—	—	Burrow ends after ~12 in
F-11	BKBSC001	N	Y	—	1	10x8	6	—	—	Disused complex of 3 burrows, all filled, not suitable
F-11	BMAJJ011	N	N	—	1	8x8	>18	—	IA	Disused mammal burrow, partially filled
F-11	BMAJJ009	N	N	—	1	8x8	>18	—	IA	Suitable burrow
F-11	BMAJH013	N	N	—	1	8x4	?	—	—	Burrow under branches of tree in wash, mostly filled in.

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Bayfire **Date:** 4-16-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	Vinkelmann

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:45	43.	1	0	5
End	8:10				

AM survey

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
PB	BKBGL013	N	Y		1	4/5, 5/3 6/5 (2)	12" >	None for 3	IA	4 poss burrows one over 4" & that end is not in sight; dry + fresh(en) scat
PB	BBBGL003	N	Y		1			Whitewash	PA	Same as BKBGL013; B burrow faces W.
PB	BMAJJ004	N	N		1	6/4	12" >	None	IA	
EB	BMASD015	N	N		1	6/5		None	IA	Loc under cres. bush; can't see into burrow because of ✗; old scat in front
EB	BGBSD001	N	N		1	>12/>12	12>	None	IA	under grass
EB	BKBSD007	N	N		1	8/10	24>	Whitewash	PA	Whitewash on a rock in front of burrow; so fresh
EB	BMASC012	N	N		1	7/6	12>	None	IA	
EB	BKBGL006	N	N		1			None		Same as BMASC012? Look at desc. No scat. End burrow 5x5 under grass (?)
EB	BMAJJ006	N	Y (2)		1	4/4 5/4	6" > 12"	None		4/4 burrow narrows @ 6" in - not sure for buoo. 5/4 appears to end 12" in
EB	BKBSD006	N	Y (2)		1	6/5 5/4	12" > 6"	None	IA	smaller burrow ends — larger burrow
EB	BMACG008	N	N		1	6/9	12>	None	IA	can't see end, burrow turns right
EB	BMACG003	N	N		1	7/9	12	None		appears to end approx 12" in

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 16, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:10am	74	5.6mph	0	5%
End	7:45pm	71	3.0mph	0	8%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-8	BMAJJ001	N	Y	n/a	1	8"x4"	8"	no	—	creosote tree mound
"	"	N	Y	n/a	1	8"x6"	18"+	no	IA	"
"	"	N	Y	n/a	1	8"x10"	30"+	no	IA	"
"	"	N	Y	n/a	1	8"x8"	10"	no	—	"
F-8	BKBJJ001	N	Y	n/a	1	8"x6"	18"+	no	IA	open area
"	"	Y	Y	n/a	1	6"x5"	24"+	no	IA	4m South fresh excavation
F7	BKBJJ002	N	Y	n/a	1	10"x10"	24"+	no	IA	large scat - not Buow
F7	"	N	Y	n/a	1	10"x8"	24"	no	IA	under mound
F-8	BKBJH001	N	N	n/a	1	10"x10"	18"+	no	IA	burrow turns right; creosote mound
F7	BMASD006	N	N	n/a	1	4"x5" / 9"x7"	12" / 6"	no	—	now 2 adjoining burrows @ opening
F7	BMAMR010	N	N	n/a	1	5"x6"	18"	no	IA	creosote mound
E7	BKBCG002	N	N	n/a	1	7"x9"	16"	no	—	Burrow ceiling collapsing
E7	BMBCG003	N	N	n/a	1	7"x10"	12"	no	—	small mound
F6	BKBSC005	N	Y(8)	n/a	1	5"x5" to 14"x12"	all 24"+	no	IA	all surrounding creosote mound
					All very deep; recent kitfox scat; some split @ opening					

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* SB

Project: SM Site: Blythe Date: April 16, 2009 Surveyor: Mike Leeland GPS Unit: 15

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F5	BKBSD003	N	N	n/a	1	7"x6"	18"+	no	IA	Burrow curves right
F5	BKBSC003	N	N	n/a	1	10"x9"	16"	no	—	All but one burrow collapsed

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM Site: Blythe Date: April 16, 2009 Surveyor: Mike Ireland GPS Unit: B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
	None							

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

grasshoppers
unidentified lizard

Comments/Notes:

None

Reviewed by surveyor (initials)

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 4-16-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	V+CK Company

	Time	Temp (°F)	Wind (~~Beaufort~~ MPH)	Precip.	Cloud Cover (%)
Start	5:20PM	75°	6 MPH	~~0~~	5
End	7:45PM	70	3 "		0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F7	BMAGL016	N	N		1	6/10	7/12	NONE		BURROW APPEARS TO END >12" IN
F7	BMASC016	N	N		1					SAME AS BMAGL016 ? MAP STATUS
F7	BMASA001	N	N		1	6/5	12"	NONE		A1 IS ON THE OF 1 ANOTHER - ONLY SAW 1 BURROW
F7	BMAAF001	N	N		1	6/6	12">	NONE	IA	NARROWS AROUND 12" IN, MAY ACTUALLY END.
E7	BMBMR004	N	N		1	6/6	12">	NONE	IA	CAN'T SEE BEYOND 1ST 12" OR SO; NARROWS AROUND
F6	BKBSC006	N	N		1	7/7	12">	NONE	IA	CAN'T SEE BEYOND 1ST 12" OR SO
F5	BKBGL005	N	Y(3)		1	4/6	12	NONE	IA	ON BORDER LINE
						4/5	12	NONE	IA	ON BORDER LINE
						6/12	7	NONE		APPEARS TO NARROW STEEP; DOES END
F5	BKBC004	N	N		1	5/4	12">	NONE	IA	ON BORDER LINE
F5	BKBSC007	N	Y(4)		1	5/9, 5/9	12>	NONE	IA	OLD SCAT; 2 BURROWS RECENT
						5/9, 6/5				ONE OLD (SOIL SCAT) OTHER 2 WERE HARD TO TOUCH

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/16/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	Pers.	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0558 am	40.7	1.3	0	5%
End	8:15				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-5	BMAMR014	N	N	—	1	8x7	>12"	NONE	IA	
J-5	BMASC020	N	N	—	1	5x6	>12"	NONE	IA	2nd burrow associated, depth ~60
K-5	BMACG024	N	N	—	1	6x5	~10"	NONE	IA	
K-5	BKBCG005	N	N	—	1	7x9	>12"	NONE	IA	Potential Kit Fox Burrow, Scat @ Entrance
K-5	BMACG021	N	N	—	1	6x5'	10"	NONE	IA	
K-5	BKBCG004	N	N	—	1	6x5	>12"	None	IA	
K-5	BMACG022	N	Y	—	1	3x3	~10"	None	IA	small mammal complex
K-5	BMACG023	N	N	—	1	6x10	>12"	W	PA	Took Picture of mutes @ Phone

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[1]Does the Burrow ID represent a complex of multiple burrows? **Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): RLC, 4/16/09 ***Approved by team leader (initials, date):*** JB

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/16/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC, KHL

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0558	40.7	1.8 / 1.3 max	Ø	3%
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J4	BMACG026	N	N	—	1	7"w/10"H	12"D+	W, P	PA	- pellet ? kit fox. now appear old, must repeat use by
K4	BMASC019	N	N	—	1	6"w/5"H	12"D	NONE	IA	- kit fox burrow, no BUOW sign, possible use in future
~~K4~~ K5	BMASC016	N	N	—	1	6"w/5"H	12"+D	NONE	PA	- kit fox burrow, fresh kit fox scat, fresh burrow but can have this season BUOW use
K4	BMAMR013	N	N	—	1	7"w/7"H	12"+D	NONE	IA	- no sign of badger, old kit fox scat
K4	BMASC017	N	N	—	1	8"w/6"H	12"+D	NONE	IA	- kit fox burrow, fresh scat
K4	BMACG025	N	N	—	1	7"w/5"H	12"+D	NONE	IA	- badger burrow
K5	BMASD017	N	N	—	1	6"w/7"H	12"+D	NONE	IA	- possible season use by BUOW, current badger sign

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JR

Project: SM Site: B Date: 4/16/09 Surveyor: RLC GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

TuVU, BTJR, WWDO, desert tarantula, kit fox, round-tail sq.

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 16 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	Pers	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:15 pm	73.0	16.3 Av. 17.9 m	0	5
End	7:40pm	70.1	4.2 Av. 19 Max	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D-5	BMAMR008	N	N	—	1	10x7	>12"	NONE	IA	
D-5	BMACG019	N	N	—	1	6x6	10"	NONE	IA	burrow located under catclaw shrub.
D-5	BMACG018	N	N	—	1	8"x 6"	~40"	NONE	IA	burrow located @ base of shrub, prob. unsuitable BUOW Burrow
D-5	BMAGL031	N	N	—	1	10"x 8"	>12"	NONE	IA	located @ base of a wash. well hidden under vegetation.
D-5	BMARC001 ~~BKBRC001~~	Y	N	0704715 3729430	1	6x5	10"	NONE	IA	
~~C-5~~	~~BMARB029~~									
F-4	BKBAD006	N	N	—	1	6x8	10"	NONE	IA	
F-4	BMAGL006	N	N	—	1	6x5'	6"	NONE	IA	
F-4	BMAAD001	N	N	—	1	8x6	6"	NONE	IA	

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JB

Project: SM **Site:** B **Date:** RLC **Surveyor:** 4/16/04 pm **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

HGLA

Black-tailed Jackrabbit

Comments/Notes:

Reviewed by surveyor (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/16/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:20 PM	78	10	—	5
End	7:50 PM	71	7	—	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-12	BMAJ4001	N	N	—	1	9x6	6	—	—	Burrow ends
F-12	BKBSC002	N	N	—	1	10x10	>18	—	IA	Large suitable burrow in bank of wash.
F-11	BMAK4004	N	Y	—	1	8x8	>18	—	IA	2 burrows, both suitable
E-9	BMASC011	N	N	—	1	10x12	8	—	—	Large mammal dugout, ends
C-8	BMAAD033	N	N	—	1	8x8	>18	—	IA	Suitable burrow on side of wash
D-7	BDBGL012	N	N	—	1	10x8	>18	—	IA	Suitable burrow very near BBBPS001

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): DT 4/19 *Approved by team leader (initials, date):*

Project: SM Site: Blyth Date: 4/16/09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Loggerhead shrike

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/16/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RCC, KHC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	1613	73.1	16.3/17.9 mph	Ø	Ø, Hazy
End	2010	70.2	4.2/5.7 mph	Ø	Ø

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C5	BMAAD028	N	N	—	1	8"W/9"H	12"+D	NONE	IA	- badger burrow, not in use
C5	BMAGL033	N	N	—	1	6"W/8"H	12"+D	NONE	IA	- mammal burrow, no sign
C5	BMAAD029	N	N	—	1	7"W/8"H	12"+D	NONE	IA	- mammal burrow, not in use
C5	BFSKH002	/	/	0704637 3729338						Ferreractus sp., pic taken
C4	BMBAD031	N	N	—	1	6"W/9"H	10"D	NONE	~~PA~~	- mostly likely to be used by DETO, located near DETO burrow
F4	BMAGL012	N	N	—	1	5"W/4.5"H	9"D	NONE	~~PA~~	- most likely used for DETO shelter
F4	BKBSD004	N	N	—	1	7"W/6"H	12"D+	NONE	IA	- active kit fox burrow old & relatively new scat @ burrow
F4	BKBMR003	N	N	—	1	8"W/8"H	12"+D	NONE	IA	- old kit fox, possible BUOW future use this season

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM **Site:** Blythe **Date:** 4/16/09 **Surveyor:** KHL, RLC **GPS Unit:** A, Phase III BUOW

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Horned-lark, leopard lizard, hawkmoth, rock wren, BTJR, TUVU, lesser night hawk, zebra tail, west. whiptail
Common poorwill

Comments/Notes:

Reviewed by supervisor (initial, date)

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 16, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:45 AM	43	1 mph	0	5%
End	8:10 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F8	BMAKH001	N	N	n/a	1	5"x7"	6"	no	—	under creosote
F-8	BMAGL001	N	N	n/a	1	8"x8"	16"	no	—	mound under creosote
E-8	BKBSD009	N	N	n/a	1	8"x8"	24"+	no	IA	mound w/ creosote
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
D-8	BDBGL011	N	N	n/a	1	8"x12"	48"+	no	IA	deep burrow in side of slope
D-8	BKBSD012	N	Y	n/a	1	6"x4"	12"	no	—	under tree canopy
"	"	"	"	"	1	8"x4"	24"+	no	IA	outside tree dripline
"	"	"	"	"	1	4"x6"	8"	no	—	hillside burrow
D-8	BDBGL010	N	N	n/a	1	9"x6"	30"+	no	IA	some erosion @ entrance
D-8	BGBGL004	N	N	n/a	1	12"x16"	36"+	no	IA	no sign seen - noted in earlier survey
E-8	BMAAD017	N	N	n/a	1	8"x12"	48"+	no	IA	deep large burrow
E-8	BMAAD018	No	YES	n/a	1	5"x11"	48"+	no	IA	east facing
E-8	"	YES	YES	same	1	8"x20"	18"+	no	IA	10m east of existing; large mammal burrow
E-8	BMACG009	N	N	n/a	1	10"x16"	24"	no	IA	burrow ends 24" in - very large all[illegible]
E-8	BMAAD016	N	N	n/a	1	8"x8"	24"+	no	IA	under trees

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1] **Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3] **Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): MI ***Approved by team leader (initials, date):*** [illegible]

Project: SM Site: Blythe Date: April 16, 09 Surveyor: Mike Ireland GPS Unit: B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
	none							

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

MODO
grass hopper
K. Rat

Comments/Notes:

Q

MI

Reviewed by

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 19/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:15 am	89	5mph	0	0
End	1:00 pm				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-4	BMARC003	Y	N	708559 3730046	1	5x6	12+	None	IA	Burrow curves to left.
	~~BMARC004~~	Y	~~Y (6)~~							
	~~BMARC004~~	Y	N	0707859 3730061	1	7x9	12"	W (old)	PA	@ base of larrea
G-4	BBORC001									
F-4	BMARC004	Y	N	0707180 3730038	1	7x8	12+	None	IA	Burrow curves to right.
F-4	BMARC005	Y	N	707119 3730042	1	5x5	10+	NONE	IA	Burrow curves to left. under larrea.
	BBCRC001	—	—	0707110 3730044	—	—	—	—	—	5" Tall

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): RLC, 4/19 *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/19/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	JB

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:15am	89	5 mph	0	0
End	1:00pm			0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C-4	BMAJP006	Y	N	0704463 3730031	1	18, 12	48+	none	IA	lg. burrow on bank of wash
C-4	BMAJP007	Y	N	0704027 3730034	1	22, 48	48++	none	?	deep wash Massive burrow photo
C-4	BMAJP008	Y	N	0703945 3729994	1					there is white wash and other droppings
~~H-4~~ B										
									Sn. cave	
						11, 8	20+	none		
H-4	BMAJP009	Y	~~N~~ Y	0708613 3730183	1	7, 9	18+	old wash	PA	4 suitable burrows
G-4	BMAJP010	Y	~~N~~ Y	0707484 3730110	1	9, 8	18+	none	PA	kit fox scat 9 suitable burrows
F-4	BMAJP011	Y	~~N~~ Y	0707324 3730094	1	6, 4	12+	none	IA	1 marginal, the rest unsuitable

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of us burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): JB 4/20/09 *Approved by team leader (initials, date):* JB

Project: SM Site: Blythe Date: 4/19/09 Surveyor: JP GPS Unit: G

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Qual, ~~falcon~~, Kestrel, zebra tail, Desert Iguana, whiptail

Comments/Notes:

Reviewed by surveyor (initials, date): JP 4/20/09 Approved by team leader (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/19/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2+3	E	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:28am	75	7 mph	0	0
End	8:08	89	5 mph		

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-4	BMAJP003	Y	N	0706731 3730134	1	10, 11	18+	none	IA	nice size burrow
E-4	BMAJP004	Y	N	0706530 3730108	1	8, 7	9+	none	IA	burrow takes r. turn, adjacent veg
D-4	BMAJP005	Y	N	0705651 3730097	1	9, 7	18	none	IA	Marginal, May end @ 18"

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): JP 4/20/09 *Approved by team leader (initials, date):* JP

Project: SM **Site:** Blythe **Date:** 4/19/09 **Surveyor:** JP **GPS Unit:** E

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

RTHA, Swallow Sp. (Tree?), Zebra tail Liz

Comments/Notes:

Reviewed by surveyor (initials) JP 4/20/09

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-19-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	Vick Germany

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:35 am	75	7	0	0
End	8:10 AM	89	5	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
84	BLBAD006	N	N		1	6/5	12+	NONE	IA	

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[1] Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3] Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): VG 4-19-09 *Approved by team leader (initials, date):* JB

Project: SM Site: BLYTHE Date: 4-19-09 Surveyor: Vicki Germany GPS Unit: C

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

BMBA 031 - STOP
BBGL 013 - TURT
LINE #2 (ACTUAL #3 ON GPS)
LOGGERHEAD SHRIKE
RED-TAILED HAWK

Comments/Notes:

Reviewed by surveyor (initials, date): VG 4-20-09

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/19/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
~~2~~/3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:35 AM	75	4	0	0
End	8:10 am	89	5	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-4	BMARC002	Y	N	705787 3730010	1	5x6	24+	NONE	IA	@ base of shrub

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[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

End - BMBAD031 stop

Reviewed by surveyor (initials, date): RLC, 4/19/09 ***Approved by team leader (initials, date):*** GB

Project: SM **Site:** Blythe **Date:** 4/19/09 **Surveyor:** RLC **GPS Unit:** A

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

LOSH
RTHA
TRSW

Comments/Notes:

Reviewed by surveyor (initials, date): JR

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 19, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:05 AM	89°	5mph	0	0
End	1:05 PM	91°	10 mph	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C4	BMAMI001	Y	N	0704580 3730020	1	7"x5"	18"	no	IA	mammal burrow in wash
C4	BMAMI002	Y	N	0704313 3730042	1	14"x12"	48"+	no	IA	surrounded by 65 burrows
C4	BMAMI003	Y	Y	0704315 3730041	1	6"x5"	18"+	no	IA	3 mammal burrows in 1m radius
C4	"	Y	Y	"	1	8"x5"	18"+	no	IA	"
C4	"	Y	Y	"	1	10"x8"	18"+	no	IA	"
C4	BMAMI004	Y	Y	0704314 3730049	1	14"x6"	24"	no	IA	2 burrows under mound
C4	"	Y	Y	"	1	7"x5"	18"	no	IA	"
G-4	BMAMI005	Y	Y	0708338 3730108	1	4"x3"	18"+	no	IA	scat @ two burrows on creosote mound

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): [illegible] *Approved by team leader (initials, date):* SP

Project: SM **Site:** Blythe **Date:** April 19, 2009 **Surveyor:** Mike Ireland **GPS Unit:** B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
		none						

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list **ALL wildlife species** and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

~~Prairie Falcon~~ AMKE
Rt Ground Squirrel
Barrel Cactus 0708011 - photo BBCMI001.jpg 3730134
Barrel Cactus 0706886 - photo BBCMI002.jpg 3730118

Comments/Notes:

none

Reviewed by surveyor (initials, date): *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 19, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:20 AM	75°	7mph	0	0
End	8:05 AM	89°	5mph	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
	none									

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): MI *Approved by team leader (initials, date):* DB

Project: SM **Site:** Blythe **Date:** April, 19, 2009 **Surveyor:** Mike Ingland **GPS Unit:** B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
	none							

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Tree Swallow, Barn Swallow, Violet-Green Swallow
zebra-tailed lizard

Comments/Notes:

Did not see burrows 4"x4" at least 18" deep
Saw plenty of shallow mammal burrows and small GS burrows.

Reviewed by surveyor (initials, date): *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-19-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	C	Nick Germany

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Clou
Start	8:35 AM	89	5	0	
End	1:00 pm				

Project:
Poten
Ma
St

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition, etc.]. List photo references here. If present, # owls, pair st, age, sex, etc. and go to page 3.)
C-4	BMAVG002	Y	Y(3)	0704100 3730012	1	8/7, 4/4, 4/4	12+, 12+, 12+	NONE; NONE; NONE	IA	4/4 LOOKS LIKE IT TURNS TO RT ONE (THE MIDDLE BURROW BUT TOO SMALL ON END)
G-4	BMAVG003	Y	N	0708382 3730100	1	4/3	12+	NONE	IA	OLD SCAT; A FEW OTHER HOLES
G-4	BMAVG004	Y	N	0707330 3730094	1	4/3	12+	NONE	IA	
F-4	BMAVG005	Y	N	0707235 3730071	1	5/4	12+	NONE	IA	VEERS TO RT COBWEBS TO FRONT
F-4	BMAVG006	Y	N	0707001 3730060	1	4/5	12+	NONE	IA	TURNS LEFT

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.
[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.
[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): HG 4-19-09 ***Approved by team leader (initials, date):*** JS

Project: SM **Site:** Blythe **Date:** 4-12-09 **Surveyor:** Von Germany **GPS Unit:** C

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

WHIPTAIL
ROCK WREN IN A DRAW; SINGING FOR SEVERAL MIN.
~~GDH - BMA 16-001~~
KESTREL - CALLING & FLEW OVERHEAD
ZEBRA-TAILED LIZARD

Comments/Notes:

Reviewed by surveyor (initials, date): VG 4.09 Approved by team leader (initials, date): [illegible]

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-20-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	C	Vick Germany

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:20	83	5	0	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): VG 4-20-09 ***Approved by team leader (initials, date):*** [illegible]

Project: SM Site: Blythe Date: 4-20-09 Surveyor: VanGemmay GPS Unit: C

Pag

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

ASH - THROATED FLYCATCHER

Comments/Notes:

Reviewed by surveyor (initials, date): IL 4-22-09 Approved by team leader (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/20/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:30 am	69°	3 mph	0	0
End	8:00	83°	9 mph	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-4	BMARC006	Y	Y	709285 3730078	1	5x5	6+	NONE	IA	Burrow curves to the right.
J-4	BMACG026	N	N	—	1	8x10	>12"	W (old)	PA	Badger ~~fr~~ claw marks on side.
	—									

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[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): RLC, 4/20/09 ***Approved by team leader (initials, date):*** [illegible]

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 20, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:05 AM	83.0	9 mph	0	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
	none									

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** April 20, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:30 AM	69°	3 mph	0	0
End	8:05 AM	83°	9 mph	0	0

1

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-4	BMAMI006	Y	N	0709231 3730135	1	9"X8"	18"	no	IA	creosote mound - cones right

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

t: SM Site: Blythe Date: April 10, 2009 Surveyor: Mike Treland GPS Unit: B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
	none							

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

blached Lizard
grasshopper
zebra-tail lizard

Comments/Notes:

none

Reviewed by surveyor (initials, date): MT *Approved by team leader (initials, date):* JS

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/20/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	~~6:00~~ 6:45AM	69	3	none	0
End	8:10 AM	83	9	none	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)

No burrows found

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): DT 4/20 *Approved by team leader (initials, date):* JB

Project: SM Site: Blythe Date: 4/20/09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Common side-blotched lizard
Western whiptail

Comments/Notes:

Reviewed by supervisor: DT

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/20/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:10 AM	83	9	none	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)

No burrows found

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): DT 4/20 *Approved by team leader (initials, date):* JS

Project: SM Site: Blythe Date: 4/20/04 AM Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Zebra-tailed lizard

BOODT001 – Beaver-tail (prickly pear? cactus, don't know if it's a target species. Photo 001. ~~Very~~ 5 m from BMACG025.

Comments/Notes:

Reviewed by surveyor (initials): DT

Project: SM Site: Blythe Date: 4/20/09 Surveyor: RLC GPS Unit: A

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)
					-			

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

GAQU ∴

CONH pair ~~[illegible]~~
HOLA
ROWR
Zebra-tailed lizard
Cassins Vireo
McGillivary Warbler
Western Whiptail
* ~~Mojave Fringe-toed lizard~~ – Zebra-tailed lizard
Side-blotched lizard

Comments/Notes:

Reviewed by surveyor (initials, date): RLC 4/19

Project: SM Site: Blythe

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Date: 4/20/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
~~2~~ 3	E	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:23am	54	9 mph	0	0
End	8:10				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
	~~BMAJP012~~	Y	N	0709069 3730192	1	—	—	none		~~No~~ good
	BKBJP001	Y	Y	071005 3730202	1	9, 8	18+	none	~~IA~~	lg. complex of burrows

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one b... Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggsh...

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of pr... burrowing owls, but is of suitable size for occupancy).

Reviewed by survey...

Project: SM **Site:** Blythe **Date:** 4/20/09 **Surveyor:** JP **GPS Unit:** E

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Whiptail, ~~zebratail~~,

Comments/Notes:

Reviewed by surveyor (initials, date): JP 4/20/09 *Approved by team leader (initials, date):* DS

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 04/20/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	IA	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:28	83°	9 mph	0	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-4	~~BB PBSD001~~ A	Y	Y	710565 3730129	1	8x6	8+	None	IA	Burrow curves to left. looks suitable size
	BMARC007									

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): RLC, 4/20/09 *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-20-09 AM

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	C	Vince Germany

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:35 AM	69	3	0	0
End	8:10 AM	83	5	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H4	BMAV6 ~~BMAV6~~ 003	Y	N	0709307 3730120	1	4/4	12+	None	IA	

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): VL 4-20-09 ***Approved by team leader (initials, date):*** OB

Project: SM **Site:** Blythe **Date:** 4-20-09 **Surveyor:** Hank Germany **GPS Unit:** C

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

VIOLET-GREEN SWALLOW
BC- BBCVG007 0709245
3730102

WHIPTAILS
ZEBRA TAILS

Comments/Notes:

Reviewed by surveyor (initials, date): HG 4.20.09

BURROWING OWL (BUOW) SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/20/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:15am	84	4	0	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-4	BMAJP013	Y	Y	0710339 3730389		5, 4	12+	none	IA	marginal burrow, plus 1St unsuitable
K-4	BKbjp002	Y	Y	0710680 3730269		12, 11	18+	none	-	kitfox burrow, old scat
K-4	BMAJP014	Y	Y	0711619 3730195		4, 4	12+	none	IA	2marginal burrows, the rest unsuitable

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): JP 4/20/09 *Approved by team leader (initials, date):* JS

Project: SM **Site:** Blythe **Date:** 4/20/09 **Surveyor:** JP **GPS Unit:** 5

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Zebra tail lizard, Horned Lark, W. Whiptail

Comments/Notes:

Reviewed by surveyor (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/27/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3		SA

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	515 PM	83	6.3	0	60%
End	820 PM	77	4.5	0	50%

Potential BUOW Burrows:

* Map Sheet	* Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	* Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-7	BMAAD026	N	N		2					No Change
F-7	BGBMR001	N	N		1					NC
E-7	BMBMR003	N	N		2					NC
E-7	BMBMR004	N	N		2					NC
E-7	BMBMR005	N	N		2					NC
E-7	BKBCG002	N	N		2					NC
E-7	BMBSA001	~~N~~ Y	N	0706305 3728791	2	8hx6W	>12	N/A	IA	BASE of creosote brush. Many smaller holes surrounding.
E-7	BMASD005	N	N		2				IA	~~[illegible]~~ NC
G-7	BMAGL015	N	N		2					NC
E-7	BKBGL008	N	N		2					NC
E-7	BGGGL002				2					NC
E7	BMAJP001				2					NC
E-7	BMACG001				2					NC - ~~Misnamed~~ ~~BMACG001 vs. BMAGL010~~ See OK
E-7	BMAAD015				2					NC
E-7	BMACG010				2					NC

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 4/29

Project: SM **Site:** BLYTHE **Date:** 4/27/09 **Surveyor:** Sean Avent **GPS Unit:** SM GARMIN C

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D7	BMAAD022				2					NC
D7	BMAGL023				2					NC
D7	BKBGL015				2					NC
D7	BMAEG013				2					NC
D7	BMACG012				2					NC
D7	BMAMR004	N	N		2	8x10	>36"	W	PA	NC / older WW some stick blocky entrance
D7	BMAGC015	N	N		2			P	PA	Possible pellet – picture

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/27/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	PM	83	6.3	0	60%
End	PM	77	4.5	0	50%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F6	BKBGL004	N			2					NC
F6	BKBAD005	N			2					NC
F6	BKBAD007	N			2					NC
F6	BGBGL001	N			2					NC
F6	BKBMR001	N			2					NC
E6	BMBCG008	N			2					NC
E6	BMBAD012	N			2					NC
E6	BMAGL014	N			2					NC
D6	BDBAD005	N			2					NC
D6	BMAMR002	N			2					NC
D6	BMAMR003	N			2					~~NC~~ NC
D6	BMAMR005	N			2					NC
D6	BMADT001	N			2					NC
D6	BMASB013	N								NC
~~D6~~	~~B~~									

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 4/29

Project: SM **Site:**_____ **Date:** _____ **Surveyor:** _____ **GPS Unit:** _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
P6	BMAFR007	N			2					NC
D6	BMAGL029	N			2					NC

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[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/27/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
Ph 3	SM gamma B	H Spautz

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5pm	83	6.3	0	60%
End	8pm	77	4.5	0	50%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E8	BMASD015				2					NC
E8	BGBSD001				2					NC
	BRBSD007				2					No whitewash. prob kit fox or badger
	BMAEC012				2					?
	BRBGL006				2					} same burrow?
	BRBSD006				2					NC
	BMACG008				2					NC
	BMAAD016				2					cobwebs over entrance - inactive
	BMACG009				2					can't see end. no sign
	BMAAD018				2					NC.
D8	BGBL004				2					NC
										→ over

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/1

Project: SM **Site:** Blythe **Date:** 4/27/09 **Surveyor:** H Spautz **GPS Unit:** B.

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F8	BBBGL003		Y		2					No BUOW sign, kit fox only
F8	BKBGL013		Y		2					"
F8	BKBSD000		N		2					probable badger. or kit fox
F8	BMASS004		N		2					NC

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/27/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 PM	83	6.3	none	60%
End	8:20 PM	77	4.5	none	50%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-5	BKBMK002	N	N	—	2					Same
E-5	BDBAD004	N	N	—	1	8x12	>18	—	IA	Burrow in side of wash, beneath ~~bushes~~ shrubs
E-5	BDBAD002 1	N	N	—	1	10x10	9	—	NS	Burrow enveloped by brush, ends
E-5	BMAKH005	N	N	—	2	8x10	9	—	NS	Burrow ends, no longer suitable.
E-5	BKBAD005 1	N	Y		2					Same
E-5	BMAAD007	N	N	—	2		>18	—	IA	
E-5	BMAAD012	N			2					Same
E-5	BMAAF003	N			2				NS	Burrow collapsed
D-5	BMAGL025	N			2					Same
D-5	BGBGL003	N	N	—	1	6x6	?	—	NS	Burrow in small channel of wash, completely covered by brush. Beehive has been predated by large mammal, honeycombs torn out, lying at mouth of burrow. Photo 001.
D-5	BKBSD002	N			2					Same
D-5	BMASC001	N	N	—	1	8x10	>18	—	NS	Covered with brush in bank of wash.
D-5	BMACG014	N	N	—	1	8x8	10	—	NS	Burrow ends
D-5	BGBAD002	N	N	—	1	18x12	>18	—	IA	Large badger burrow, probably active.
D-5	BMAMR008	N			2					Same

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** DT 4/30

Project: SM **Site:**_____ **Date:** _____ **Surveyor:** _____ **GPS Unit:** _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D-S	BMACG018	N			2				NS	Same, not suitable
D-S	BMACG019	N			2				NS	Same, not suitable
D-S	BMAGL031	N			2					Same
C-S	BMAAD029	N			2				NS	Same, under brush, not suitable

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Project: SM Site: Blythe Date: 4-27-09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

lesser nighthawk
Black-tailed jackrabbit

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blyth **Date:** 27 Apr

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	13	JL

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	04 10pm	80	10-12	0	100 Ovr
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-5	BBDJL001	Y	N	0711 1569 3729785	0	5x7	>12	N	IA	
L-5	BBDJL002	"	Y	0711 612 3729615	0	5x6	>12	N	IA	
L-6	BBDJL003	"	Y	0711 566 3729352	0	4x6	>12	N	IA	
L-7	BBDJL004	"	Y	0711 583 3729828	1	7x7	>15	Y old Coyote Scat	IA	Poss old usage

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blyth **Date:** 28 Apr 09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
	13	JL

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	04:49 PM	80	8	None	0
End	06:34 PM	81	8-10	None	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-4	BBOWL006	Y	Y	0711592 3730235	0	6/6	>12	None	IA	
L-4	BBOWL007	Y	Y	0711614 3732202	0	4/4	>12	None	IA	
L-4	BBOWL008	Y	Y	0711615 3730171	0	6/4	>12	None	IA	
L-4	BBOWL009	Y	Y	0711672 3729938	1	6x4	>12	None	IA	2 hrs before survey
L-6	BBOWL010	Y	Y	0711672 3728935	1	7x4	>12	None	IA	
L-7	BBOWL011	Y	Y	0711678 3728889	1	10x8	>12	None	IA	
L-7	BBOWL012	Y	Y	0711666 3728698	1	8x6	>12	None	IA	
L-8	BBOWL013	Y	Y	0711682 3728366	1	11x9	>15	None	IA	Poss Kit Fox Complex

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1] **Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.**

[3] **Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-28-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 AM	67	0	0	25
End	7:56 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
GO C7	BDBGL009	N	N		1	5×8	>12	W	PA	Old W., fresher mammal (3/4 in) scat
GO C7	BKBGL012	N	N		1	10×8	>24	None	IA	Urine at entrance
GO C7	BBBGL002	N	Y		1	8×8	>24	W, F, poss. B	PA	~12 burrows, old W. around 4. Small gray feathers around several, may not be BUOW.
	Cont. ↑									In complex with KB and BB. Much mammal scat some relatively fresh ~3/4 in
GO C7	BDBGL016	N	N		1	12×5	>12	NONE	IA	On side of wash
GO C7	BDBAD008	N	N		1	12×6	>24	NONE	IA	On side of wash
GO C7	BMAAD041	N	N		1	6×8	>24	NONE	IA	
GO C7	BMAAD040	N	N		1	6×6	>24	NONE	IA	
GO C7	BDBAD010	N	N		1	12×12	>24	NONE	IA	
GO C7	BPBSD006	N	N		1	9×8	>24	NONE	IA	Spiderwebs + very in front of entrance
GO C7	BKBGL017	N	N		1	10×10	>24	NONE	IA	Side of wash East of big bush but still under bush
GO C7	BMASD016	N	N		1	12×10	>24	NONE	IA	

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT / 4/29

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 4/28/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	Garmin D	S. Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	453 AM	67	0	0	25
End	753 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D7	BDBGL012	N	N		2			W	A	~~Looks to be covered in~~ Good burrow
D7	BBBSD001	N	N		2			~~P?~~, W	A	Pellets or scat (P.ct taken) 2 Only small WW (1 spot) erosed MULTIPLE pellets (varying ages)
C7	BMASD018	N	N		1	8"x8"	>24	None	IA	In wash; low veg surrounds.
C7	BKBSD014	N*	N		1	8"x8"	>24	None	IA	Nice burrow on 20° slope facing S Active mammal
C7	BKBGL018	N	N		1	8"x10"	>24	None	IA	Buried at base of 36" high veg
C7	BMASD020	N	N		1	6"x8"	>12	None	~~IA~~ NS	NOT BUOW Suitable. Covered with veg & big tree
C7	BDBAD026	N	N		1	6x5"	>24	None	IA	Nice Burrow with low sparse veg - no sign
C7	BDBAD027	N	N		1	5"x8"	>12	None	IA	Located 10' N of wash. Decent for BUOW. Mid height veg nearby.
C7	BMAAD042	N	N		1	8"x~~8~~"	>12	None	~~IA~~ NS	Under creosote - totally covered in shadow of bush
C7	BDBP 005*	N	N		1	8"x3"	>12	None	IA	Barely suitable. mid high veg nearby
C8	BMAAD043	N	N		1	5"x6"	>24	None	IA	Nice burrow near mid high veg
C8	BMAGL037	N	N		1	6"x6"	>24	None	IA	Nice burrow near mid high veg
C8	BDBSD007	N	N		1	4"x8"	>24	None	IA	Active tortoise burrow. OK BUOW burrow
C7	BMASD021	N	N		1	7"x6"	>24	None	IA	Nice Burrow. Rabbit scat.
C7	BMAPB014	N	N		1	8"x10"	>24	None	IA	Nice burrow at base of Creosote Cobwebs

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** DT 4/29

Project: SM **Site:** BLYTHE **Date:** 4/28/09 **Surveyor:** Sean Avent **GPS Unit:** Garmin D.

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C7	BDBAD009	N	N		1	3" x 8"	>12	None	~~IA~~ NS	Not good habitat. Buried in middle of large creosote bush. No easy entrance

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[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/28/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	HSpaulz

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	540 am	67°	1	0	25
End	8:00 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D8	BDBGL010	N			2					~~probably active DB scat~~ NC
D8	BKBSD012				2					NC.
D8	BDBGL011				2					NC.
C8	BMAAD033				2					NC.
C8	BDBGL019	N	N		1	24,12	48+	N	IA	Desert tortoise-shaped lots of cut veg inside, on bottom rocky slope @ wash. Appears to be active- DETO.

PBBSD001

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 4/29

vertical

Project: SM Site: Blythe Date: 4/28/2009 Surveyor: H Spautz GPS Unit: B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Ash-throated flycatcher (prob breeding)
Wilsons warbler ♂ (prob migrating)
[lesser nighthawk on entrance rd near highway]

Comments/Notes:

Approved by team leader (initials, date): B

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/28/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:20 PM	83	9	none	1%
End	8:05 PM	78	7-4	none	0%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-11	BMAKH004	N			2					No change
F-10	PKBRW001	N			2					Same
F-9	BKBRW002	N			2					Same
F-9	BKBSD005	N			2					Same, cobwebs
F-9	BDBSD005	N			2					Same, cobwebs
F-9	BKBGL007	N			2					Same, cobwebs
F-8	BMARW008	N	N	—	1	10x12	18	—	NS	Probable badger foraging burrow, under dense veg in wash.
F-8	BMASC034	N	N	—	1	6x8	>18	—	~~I~~ IA	Suitable burrow, cobwebs over entrance
G-8	BMARW009	N	Y	—	1	14x12	>18	—	NS	3 large burrows at base of tree in wash with branches in front. 2 end, other continues, but blocked by branches.
G-8	BMASC036	N	N	—	1	8x10	>18	—	IA	Suitable burrow
G-7	BMAMG011	N	N	—	1	7x7	>18	—	IA	Suitable burrow at base of small creosote, may become too narrow ~12" in.
F-8	BKBJH001	N			2					Same
F-8	BMAMG006	N			1				NS	Could not find. Mapped Very near BKBJH001, but no suitable burrows nearby. Possibly a duplicate?
F-7	BKBJJ002	N			2					Same
F-7	BMARW006	N	N	—	1	8-4	>18	—	IA	Marginal burrow, partially collapsed, under small creosote.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/3

Project: SM Site: Blythe Date: 4/28/2009 PM Surveyor: DT GPS Unit: 6

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-8	BMAJJ001	N			2					Same
F-8	BKBJJ001	N			2					Same
F-7	BMAGL016	N			2				NS	Same, burrow ends, not suitable
G-7	BMAMG007	N	N	—	1	6x4	>18	—	IA	Marginal burrow
G-7	BMAMG010	N	N	—	1	6x4	>18	—	IA	Marginal burrow
F-7	BMARW007	N	N	—	1	5x7	>18	—	IA	Suitable burrow out in open.
F-7	BMAAF001	N			2					Same
F-7	BMAMR010	N			2					Same

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM Site: Blythe Date: 4-28-09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

white-winged dove

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/28/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:45 pm	83	9	0	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F4	BMAAD001	N	N	—	2	—	—	None	IA	webs @ entrance.
F-4	BMAGL006	N	N	—	2	—	—	None	IA	KF scat at entrance
F-4	BKBAD006	N	Y	—	2	—	—	NONE	IA	
F-4	BMAJP003	N	N		2	—	—	NONE	IA	large Burrow
E-4	BMAJP004	N	N	—	2	—	—	NONE	IA	webs @ entrance
E-4	BMAGL013	N	N	—	1	6x5	10"	NONE	NS	@ Base of Palo Verde. looks unsuitable
E-4	BKBGL009	N	Y(3)	—	1	10x7	>12"	NONE	IA	KF Burrow. looks recently used.
E-4	BKBGL010	N	N	—	1	6x5	>12"	None	IA	beside large webs in Entrance
E-4	BKBGL011	N	N	—	1	8x7	10"	NONE	IA	Burrow ends.
E-4	BDBGL007	N	N	—	1	6x5	>10"	None	IA	
E-4	BDBGL008	N	N	—	1	7x5	>10"	None	IA	Rodent Droppings @ entrance.
E-4	BDBAD003	N	N	—	1	5x4	>8"	None	IA	Debris in Entrance
E-4	BKBSD001	N	N	—	1	11x8	>10"	None	IA	Burrow curves to right
E-4	BDBSD001									

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[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3] **Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): RLC / 4/28/09 ***Approved by team leader (initials, date):*** DT 5/3

Project: SM **Site:** Blythe **Date:** 4-28-09 **Surveyor:** RLC **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

CONH
LHSH
BTGN
CTWR (cactus wren)

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/28/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	HSpautz

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	525 pm.	83	9	0	0
End					

Potential BUOW Burrows: F11, F12

NC = No change

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F11	BKBKH003				2					old kit fox scat
↓	BMAJJ011				2					NC
↓	BMAJJ009				2					NC
↓	BKBKH00[illegible] 2				2					NC
F11	BKBKH00[illegible] H(1)				2					cobwebs @ entrance, kit fox scat
F12	BKBSC002				2					NC
F12	BKBKP001				2					NC
E12	BMAPB009	N	Y		1	10 x 12	18+	NONE	NS	one large burrow, many <4"
	BMAMR017	N								along vertical wash edge, under overhanging
E11	BMAMR017	N	N		1	9x12	36+	NONE	IA.	Base of vertical wash wall [yes]
F11	BMACG032	N	Y		1	10x10	36+	NONE	IA	Base decaying tree (photo)
F11	BMAPB010	N	Y		1	10x12	18+	NONE	IA	2 burrows base creosote, one
	BMAPB009	N	N		1	8 x 10	18+	NONE		covered w/ cobwebs, same size
F11	BMAPB008	N	N		↓	↓	↓	↓	IA	Near base lg dead tree, may get
										very small aftn 18" (diff to see)

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/2

Date: 7/28/09 Surveyor: HSpawr GPS Unit: 15

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F11	BMAMR015	N	N		1	10x8	24+	NONE	IA	
	BMAMR016	N	Y		1	4x4	12+	NONE	IA	Small mammal complex, one suitable burrow
	BMAMR015	N	N		1	6x6	48"	NONE	IA	near creosote.

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[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

BMAA0001

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-28

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:15 PM	83	9	0	0
End	8:00 PM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D6	BMACG017	N			2					NC
D6	BMA									
D6	BDBCG001	N			2					NC
D6	BMACL024	N			2					NC (may have surveyed area 4-26)
D6	BMAMR007	N			2					NC (" ↑ ")
C6	BMASP019	N	N		1	10x10	>24	NONE	IA	
C6	BKBSP013	N	N		1	10x8	>18	NONE	IA	
C6	BDBGL017	N	N		1	4x8	>12	NONE	IA	North side of wash facing west, entrance has some roots + veg.
C6	BKBSP015	N	N		1	8x6	>24	NONE	IA	In wash floor facing SE screened by bush
C6	BDBSP002	N	N		1	8x8	~10	NONE	NS	Plugged by veg
C6	BMASP023	N	N		1	8x8	" ↑	↑		↑ "
C6	BMAEG001	Y	N	11 S 0704137 UTM 3729192	1	12x5	>24	NONE	IA	could be DB on side of wash
C6	BDBGL003	N	N		1	12x8	~12	NONE	NS	Ends ~12 in
C6	BDBSP003	N	N		1	15x16	>48	W?	PA	Poss. v. old W. fresher small marel scat
C6	BKBGL003	N	N		1	14x8	~18	NONE	NS	Can see end, no turns

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/3

Project: SM **Site:** Blyme **Date:** 4-27 **Surveyor:** EG **GPS Unit:** E

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C5	BMASD022	N	N		1	12x12	>24	NONE	~~P~~ A	West of stake
C5	BBBSD002	N	N		1	8x8	>36	W, P	A/PA	Copious whitewash and pellet that is still dark, but a
C5	1									little degraded w/ big parts.
C5										~~Burrow is one of several that look~~
C5	BBBSD010	N	N		1	12x10	>36	NONE	PA/IA	Lots of small mammal scat but right next to good BB
										May come out other side after 2 feet underground.
C5	BBBPB001	N	Y?		1	8x6	>24	W, P, B	PA	Whitewash is dry, pellet is pretty degraded
										These 3 are a complex
										of 4-5 burrows, 2 with
										whitewash. It is hard
										to tell which pellets
										indicate which burrow.

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[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Project: SM Site: Blythe Date: 4-28-09 Surveyor: EG GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

BBC EG001 - Barred Owl

Nighthawk poss. nest 27 m N of BDBG4003

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 4/28/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	SM Garmin D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:19 PM	83	9	0	0
End	8:19 PM	78	7.5	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-10	BMAC6040	N	N		1	8"x8"	>24"	None	IA	Good Burrow at base of creosote
	BMASC025	N	N		1	10"x12"	>24"	None	IA	Good Burrow at base of creosote
	BMAPB006	N	N		1	14x14	>12	None	NS	NOT SUITABLE - In middle of large Creosote Clump
	BMASH002	Y	N	0706158 3727220	1	8x8	>24	None	IA	Good Burrow in open
	BMAJJ013	N	N		1	6x8	>24	None	IA	Good burrow at base of creosote
	BKBPB002	N	Y		1	16x16	>24	None	IA	5 Burrows - largest is 16x16" All on side of Berm on east face
	BMASH015	N	N		1	8x4	>12	None	IA	Burrow on side of hill and base of creosote -
	BMAJJ016	N	N		1	12x8	>24	None	IA	on North side of hill many dead end burrows nearby
	BMAJJ018	N	N		1	10x10	>24	None	IA	Nice Burrow in open
	BMAJJ015	N	N		1	10x14	>24	None	IA	At Base of dead tree with much dead veg obscuring. Low Quality
	BMAJJ012	N	N		1	8x8	10"	None	NS	NOT Suitable - not deep enough
	BMAAD039	N	N		1	10x10	>24	None	IA	Nice large burrow in open. Kit Fox tracks at entrance
	BMAPB012	N	N		1	10x10	>12	None	NS	NOT Suitable - In large palo verde tree base
	BMAPB011	N	N		1	12x8	>24	None	IA	Barely suitable - in base of palo verde tree
	BMASC023	N	N		1	8x8	>24	None	IA	Nice burrow in open

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/1

Project: SM **Site:** BLYTHE **Date:** 4/28/09 **Surveyor:** Sean Avent **GPS Unit:** SM GARMIN D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-9	BMAJJ005	N	N		1	12x18	>24	NONE	IA	LARGE suitable burrow.
E-9	BMAJJ014	N	N		1	8x8	>24	NONE	IA	Suitable burrow at base of creosote
E-9	BMAGL017	N	N		2	12x16	>24	NONE	IA	suitable Burrow in open near creosote
E-9	BKBSD010	N	N		2	8x8	>24	NONE	IA	NICE Burrow in open
F-9	BMAGL018	N	N		2	10x10	>24	NONE	IA	old Kit FOX SCAT & COB webs
F-10	BMASA003	N	N		1	8x10	>24	NONE	IA	BASE OF creosote

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BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blyth **Date:** 29 Apr 09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
	13	JL

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	1:15 pm	80	0	None	0
End	5:30 pm	80	2	"	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
M-10	BBOJL014	Y	Y	0712497 3727248	D	8x4	>12	1 old pellet old Aprons	PA	Ref past usage only / R Pair / ≈30 m of Transect boundary
L-12	BBOJL015	Y	Y	0711524 3726308	D	6x5	>12	None	IA	≈20 m of Transect
H-16	BBOJL016	Y	Y	0708441 3724622	D	5x4	>12	None	IA	

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/29/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 AM	59	3.4	none	0
End	8:10 AM	67	3-8	none	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-6	BKBSC005	N	Y	—	2				IA	5 suitable burrows, kit fox scat in complex.
F-6	BKBSC006	N			2				IA	Single burrow on creosote mound. Round / descriptions should switch ↑↓
F-6	BMAMG005	N	N	—	1	6x4	6	—	NS	Small dig out at base of creosote, ends.
F-6	BKBSC009	N	Y	—	1	8x8	>18	—	IA	Disused kit fox complex. 1 suitable burrow, several collapsed.
F-6	BMAMG002	N	N	—	1	8x8	9	—	NS	Burrow ends
G-5	BMARW012	N	N	—	1	8x4	>18	—	IA	Marginal burrow
G-5	BMASC037	N	N	—	1	8x8	12	—	NS	Burrow ends
G-5	BMARW013	N	N	—	1	8x6	>12	—	NS	Burrow narrows after 12", probably ends in little fault in ch
F-5	BMASC035	N	Y	—	1	9x10	>18	—	IA	2 suitable burrows ~3ft apart.
F-5	RBKBMG001	N	Y	—	1	8x8	18	—	NS	2 large burrows, both end
F-5	BMAMG003	N	N	—	1	6x6	12	—	NS	Burrow ends
F-5	BMAMG004	N	N	—	1	8x8	>12	—	NS	Burrows narrows to non suitable size after ~12"
F-5	BKBSC007	N			2					Same
F-5	BKB 004	N			2					Same
F-5	BKBSD003	N			2					Same

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/3

Project: SM Site:_____ Date: _____ Surveyor: _____ GPS Unit: _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-5	BBPMR001	N	Y	—	1	8x4	>18	—	IA	2 marginal burrows. Listed as BUOW pellets, but no BUOW sign seen.
F-5	BDBRW003	N	N	—	1	10x8	12	—	NS	Burrow under veg, ends.
F-5	BMADT002	Y	N	707285, 3729763	1	8x6	>18	—	IA	Suitable burrow out in open.
G-5	BMAMG009	N	N	—	1	8x8	>18	—	IA	Suitable burrow.
G-5	BMARW011	N	N	—	1	8x8	>18	—	IA	Burrow opens directly into creosote.
G-5	BMARW010	N	N	—	1	6x4	>18	W	PA	Burrow has whitewash at entrance, but appears to narrow greatly ~8" in. Photo 001.
F-5	BKBRW003	N	Y	—	1	10x8	>18	—	IA	3 suitable burrows in kit fox complex.
F-4	BDBGL006	N	N	—	1	?	?	—	NS	Burrow completely covered under shrub, may just be dugout into shrubs.
F-4	BKBSD004	N			2		18		NS	Burrow ends after ~18".
F-5	BMAGL008	N	N		2					Same, cobwebs

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blythe Date: 4-28-09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Coyotes
Barn swallow

Comments/Notes:

Reviewed by supervisor (Initials)

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-29

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:50 AM	59	3.4	0	0
End	8:10	67	3.8	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G4	BMAVG003	N	N		1	5×4	>24	NONE	IA	Some old dry mammal scat, small
G4	BMAMI005	N	N		1	5×4	>24	NONE	IA	Fresher mammal? scat, small
H4	BMARC003	N	N		1	7×5	>24	NONE	IA	
H4	BMAJP009	N	Y		1	11×10	>36	NONE	IA	4 suitable holes around brush, * E. has coyote scat, pretty fresh
H4	BMACG044	N	N		1	10×10	>24	poss. B	IA	few small rodent bones, don't seem to be pellets. surrounded by unsuitable burrows
H4	BMAMR026	N	N		1	12×12	>36	NONE	IA	v. Large, old + fresher coyote scat
~~H4~~	~~BMA~~									
H4	BMAMR024	N	N		1	8×8	>24	NONE	IA	Turns left
H4	BMACG042	N	N		1	8×8	>24	NONE	IA	small round scat and old mammal scat
H4	BMAEG002	Y	N	115 0709224 UTM 3730142	1	7×6	>24	W?	PA/IA	Strange scat(?) dark with white end. Some bird?
H4	BMAMI006	N			2					NC
H4	BMAVG008	N			2					NC
H4	BMARC006	N			2					NC
H4	BMAMR020	N	N		1	8×8	>24	poss. W	IA	small amount of W, ~1cm². Old fox(?) scat
H4	BMAMR021	N	N		1	9×6	>36	NONE	IA	

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* PT 5/3

* JP already visited, reported W => West here [illegible]

Project: SM **Site:**_____ **Date:** _____ **Surveyor:** _____ **GPS Unit:** _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J4	BMACG026	N			2					NC, can see end of lot 2 burrows (with W.)

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** B/Wo **Date:** 4/29/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:45am	54°	3, 4	0	0
End	8:10 am				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-4	BDBSR001	N	N	—	1	6x5	10"	NONE	IA	Burrow in the side of a bank in a dry wash. Covered in thick veg.
	BMAAF002	N	N	—	1	7x5	>12"	NONE	IA	
	BKBGL001	N	N	—	1	7x5	10"	NONE	IA	
	BMARC002	N	N	—	2	NC	24"	NONE	IA	
D-4	BMAJP005	N	N	—	2	NC	NC	NONE	IA	
	BMASC003	N	N	—	1	7x8	>10"	NONE	IA	Burrow curves to right
C-4	BDBGL013	N	N	—	1	8x6	12"	None	IA	Burrow narrows @ 12"
	BMAM1001	N	N	—	1	7x6	>10"	None	IA	Burrow curves to left.
	BMAJP006	N	N	—	1	14x7	>18"	W	PA	Old White Wash
	BMAM1002	N	N	—	1	8x9	>12"	None	IA	
	BMAM1003	N	N	—	1	6x5	10"	None	NS	Burrow shrinks to 2x2 @ 10" in.
	BMAM1004	N	N	—	1	6x4	>10"	None	IA	
	BMAVG002	N	N	—	1	8x7	24"	NONE	NS	Burrow ends

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

Project: SM **Site:** Blythe **Date:** 4-29-09 **Surveyor:** RLC **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Black-tailed Jackrabbit
- HOLA
- BTSP
- Loggerhead Shrike
- GAQU

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 4/29/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 AM	59	3.5	0	0
End	8:10 AM	65		0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-10	BBBRW001	N	N		~~2~~			WP	PA	Watched at dawn for ~ Pcts @ 610 AM also dark excrement Flat ground
F-10	BBBGL001	N	N		~~2~~	8x8	>24	WP	PA	OLDER; in open cobwebs @ 612 AM also dark excrement Flat ground.
E-11	BMASC021	N	N		1	8x8	>24	NONE	IA	AT BASE OF WASH WALL - Horizontal
E-11	BMAMR018	N	N		1	6x8	>12	NONE	~~IA~~ NS	AT BASE OF DEAD TREE - Unsuitable covered with dead limbs
	BMASC024	N	N		1	8x10	>24	NONE	IA	NICE BURROW
	BKBCG004	N	N		1	6x10	>24	NONE	IA	~~coyote~~ Kit fox scat - nice burrow cob webs
	BMABP005	N	Y		1	10x12	>24	NONE	IA	Approx 3 burrows in side of bank
	BDBGG002	N	Y		1	12x12	>24	None	IA	LARGE Kit fox den with >6 burrows in diam of 30'. lots of Kit Fox scat & track
	BDBMR003	N	Y		1	24x12	>24	None	IA	LARGE Kit fox den with >9 burrows in 30' area. KF scat plentiful
	BKBPB001	N	Y		1	6x8	>12	None	IA	Nice Burrow. Kit Fox scat 3 burrows in 15' diam
	BMAJH014	N	N		1	10x10	>24	None	IA	BASE of Wash wall
	BMABB007	N	N		1	8x8	>12	None	~~IA~~ NS	Unsuitable - in heavy shrub veg of wash bank
	BMAJJ017	N	N		1	8x6	>24	None	IA	Nice burrow on slope
E-11	BMAGG031	N	N		1	8x10	>24	None	IA	In bank of wash
E-11	BMAGG037	N	Y		1	24x24	>24	None	IA	under tree. Unsuitable for BUOW. >5 burrows in 15' diam.

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/3

Project: SM **Site:** Blythe **Date:** 4/29/09 **Surveyor:** Sean Avent **GPS Unit:** GARMIN D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E-11	BDBAD007	N	N		1	10x12	>24	NONE	IA	On side of wash. Low quality due to visibility restrictions.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Project: SM **Site:** Blythe **Date:** 4-29-09 **Surveyor:** SA **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

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****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

G. Quail, western whiptail, W. kingbird; Ash throated fly catcher

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/29/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3		HS

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 AM	60	3.4	0	0
End	8:10	67	3.8	0	0

Still need to set BDBKH001 on F13

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
E12	BMASC022	N	Y		1	6x6	24+	NONE	IA	3 suitable burrows, old kit fox scat
E12	BMAAD038	N	N		1	8x8	24+	NONE	PA.	next to creosote
E12	BMAMR019	N	N		1	10x4	12+	NONE	~~NS~~	partly concealed by overhanging
							~~12+~~	~~NONE~~	IA.	large ~~creosote~~ mesquite
E13	BMAPB13	N	N		1	8x8				right under woodrat nest
								NONE	IA	rabbit brush stems pulled over
										half of entrance, surrounded
										by bushes in wash. Marginal suit-
										ability. Photographed.
F13	BMACG039	N	Y		1	8x8	12+	NONE	IA	~~Some~~ 3 burrows in rocky
										slope @ wash; abundant
										small mammal droppings

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/3

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/29/2009

Pag

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:55 PM	88	0-8	none	1%
End	8:00 PM	80	4-7	none	1%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-4	BKBMR003	N			2					Same
F-4	BMAVG006	N			1					Same as 0 visit
F-4	BMARC005	N			1					Same as 0 visit
F-4	BMAVG005	N			1					Same as 0 visit
F-4	BMASC033	N	N	—	1	8x6	>18	none	IA	Suitable burrow
F-4	BMAMG001	N	N	—	1	6x6	>12	none	IA	Burrow at base of creosote, partially blocked by branches
F-4	BMAJP011	N			1					Same as 0 visit
F-4	BMAMG008	N	N	—	1	6x6	>18	none	IA	Suitable burrow
G-4	BBORC001	N			1					Same as 0 visit, no new whitewash.
G-5	BKBMR0011	N	N	—	1	8x6	8	none	NS	Burrow ends
G-5	BMAMR031	N	N	—	1	6x6	>18	none	IA	Suitable burrow out in open.
G-5	BKBMR006	N	Y	—	1	8x6	>18	none	IA	2 suitable burrows at base of creosote, both partially blocked by branches.
G-5	BMAMR030	N	N	—	1	8x6	8	none	NS	Burrow ends.
H-5	BMAMR029	N	N	—	1	10x4	>18	none	NS	Blocked by creosote branches.
[illegible]-5	BMARW002	N	N	—	1	6x6	>18	none	IA	Marginal burrow under brush.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

Project: SM Site: Blythe Date: 4/29/2009 Surveyor: DT GPS Unit: C

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-5	BMADT003	Y	N	3729509 708422	1	6x6	>18	none	IA	Suitable burrow out in open.
H-5	BMACG046	N	N	—	1	10x6	>18	none	IA	At base of creosote, makes left turn.
H-5	BMAMR028	N	N	—	1	8x6	>12	none	NS	Shrouded by brush, can't see into entrance. Too enclosed with veg, not suitable.
H-5	BMARW001	N	N	—	1	6x3	9	none	NS	Burrow ends
H-5	BMACG047	N	N	—	1	6x3	4	none	NS	Burrow ends
H-5	BMAMR027	N	N	—	1	8x4	12	none	NS	Burrow ends
H-5	BMACG045	N	N	—	1	8x6	18	none	NS	Burrow ends 18" in.
H-5	BMASC029	N	N	—	1	6x6	20	none	NS	Burrow ends 20" in.

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM **Site:** Blythe **Date:** 4-29-09 **Surveyor:** DT **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

~~Common~~ Lesser nighthawk

Comments/Notes:

Reviewed by surveyor (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** RLC 4/29/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30pm	88	1	0	0
End	7:30pm	80	1	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C-5	BDBGL018	N	N	—	1	7x5	10"	NONE	IA	at base of shrubs. Debris blocking entrance
C-5	EBBSD002	N	Y	—	~~2~~ 1	5x6	>12"	W, P	PA	lots of old whitewash. Some old pellets
C5	BDBGL015	N	N	—	1	6x5	>8"	NONE	IA	Burrow under dense cover. Debris and webs @ entrance
C-5	BMAMD029	N	N	—	2	NC	NC	None	IA	—
C-5	BDBGL014	N	N		1	8x6	12"	None	IA	Burrow in bank of wash. Debris + webs @ entrance
MC-4	BMAJP008	N	N		1	11x6	24"	None	IA	looks like an OT Burrow.
C-4	BMAGL030	N	N	same as below						
C-4	BMAJP007	N	N	—	2	NC	NC	None	IA	NC

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use)

Reviewed by surveyor (initials, date): RLC/04/29/09 *Approved by team leader (initials, date):* DT 5/4/2009

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/29/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
~~A~~ 3	Garmin D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	515 PM	88	1 mph	0	0
End	815 PM	80	5 mph	0	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G-7	BMASA004	Y	Y	0707897 3728480	1	4 x 6	10	None	IA	In open. complex with Not Suitable - not deep enough
G-7	BMAGG049	N	Y		1	8 x 6	>24	None	IA	LARGEST Burrow in conc. of smaller burrows
G-7	BMASC031	N	N		1	9 x 7	>24	None	IA	Base of small creosote
G-7	BMASC032	N	N		1	6 x 8	>24	None	IA	Nice Burrow ~~in open~~ with small scrub veg
~~G~~-8	BMARW004	N	N		1	10 x 8	>24	None	IA	In open
H-8	BMARW005	N	N							Delete - same as BMARW004 or too small.
J-5	BMAGG027	N	N		1	6 x 4	>12	None	IA	Base of creosote
J-5	BMAPB003	N	N		1	8 x 10	>24	None	IA	" "
J-5	BMAAD034	N	N		1	8 x 6	>12	None	IA	" "
J-5	BMAAD035	N	N		1	8 x 10	>24	None	IA	" "
J-5	BMASA005	Y	Y	0709862 3729530	1	6 x 3	>12	None	IA	" " 2 burrows
J-5	BMASA006	Y	Y	0709870 3729531	1	7 x 7	>24	None	IA	" " 4 burrows
J-5	BMASC020	N	N		2	5 x 8	>24	None	IA	In open
J-5	BMAAD036	N	~~N~~ Y		1	7 x 6	>12	None	IA	" " many burrows within 30 feet
J-5	BMAGG028	N	N		1	8 x 8	>24	None	IA	In open

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 4/30

Project: SM Site: Blythe Date: 4/29/09 PM Surveyor: Jean Arent GPS Unit: GARMIN D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-5	BMAEG029	N	Y		1	10x12	>24	NONE	IA	MANY BURROWS 30' diameter, Kit fox feces; large bones

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/29/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	HSpautz

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:50 PM	88	1 mph	0	0
End	8:00pm	80	5	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H7	BMASC030	N	N		1	6x5"	24+	NONE	IA	
H7	BMARW003	N	N		1	6x6	12+	NONE	IA	
H-8 ~~H7~~	BMACG048	N	N		1	8x8	12+	NONE	IA.	heavy creosote.
J5	BMACG030	N	N		1	8x10	12+	NONE	IA	
J5	BMAAD037	N	Y		1	10x10	12+	NONE	IA.	3 large burrows around creosote.
J5	BMAPB004	N	N		1	8x8	12+	NONE	IA	marginally suitable; surrounded by dense bushes.
										~~gsten~~ stem jammed in entrace
										indicates inactive
J5	BMACG041	N	N		1	8x8	12" +	NONE	IA.	sm amt old kit fox scat
~~F13~~	~~BMAC G039~~				~~1~~				~~IA~~	~~Sean may have written~~

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 4/30

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4-29-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:50 PM	88	0.8	0	1%
End	8:00 PM	80	4.7	0	1%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H5	BMASC028	N	N		1	9x8	24	NONE	NS	Burrow ends ~24 inches in.
H5	BMACCG043	N	N		1	8x6	>24	NONE	IA	Turns left
H5	BMASC027	N	Y		1	12x12	>36	NONE	IA	2 good burrows, one might end.
H5	BMAMR022	N	N		1	8x8	24	NONE	NS	Gets very narrow (2x2) at end, also under a bush
H5	BKBSC008	N	N		1	10x10	>36	NONE	IA	GPS point off by ~8m - Burrow lies south of point
H5	BMAMR025	N	Y		1	12x12	>48	W	~~IA~~ PA	Old W. on one. Cluster of 5 def. fox or coyote, but no obvious scat
H5	BMACCG043	N	N		1	10x10	>24	NONE	IA/NS	Far under brush w/clear tunnel through ~2.5' brush
H5	BMACCG043	N	N		1	8x8	>24	None	IA	Turns left. Old mammal scat
H5	BMASC026	N	N		1	8x10	36	NONE	NS	Ends. Mammal scat
H5/J5	BKBCG007	N	Y		1	12x12	>36	W, Pr, Pr	PA	7 large burrows. 6 have old W. southernmost has lots of of W plus beheaded beetle. poss. pellets, def. old mammal scat - fox + dark coyote
	B	pic	2+3							
	B									
	B									

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* PT. 4/30

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blyth **Date:** 30 Apr 09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	13	[illegible]

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:55	41	3	0	0
End	7:10	80	3		

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
	BBOWL017	Y	Y	11S 0709141 3725570	D	5x4	>10	NO	IA	
	BBOWL018	Y	Y	11S 0709552 3725550	D	8x4	>12	NO	IA	
	BBOWL019	Y	Y	11S 0709508 3725569	D	6x4	>12	NO	IA	
	BBOWL020	Y	Y	0709554 3725575	D	4x4	>10	N	IA	
	BBOWL021	Y	Y	0709595 3725591	D	6x4	>12	N	IA	
	BBOWL022	Y	Y	0710546 3725058	D	6x4	>12	N	IA	
	BBOWL023	Y	Y	0710570 3724242	D	5x3	>10	N	IA	
	BBOWL024	Y	Y	0710702 3724477	1	5x4	>10	N	IA	
	BBOWL025	Y	Y	0710695 3724774	1	5x4	>10	N	IA	
	BBOWL026	Y	Y	0710752 3724630	1	12x10	>12	N	IA	
	BBOWL027	Y	N	0710505 3724172	1	8x4	>15	N	IA	
	BBOWL028	Y	Y	0709610 3725497	1	9x4	>15	N	IA	
	BBOWL029	Y	Y	0709313 3725510	1	8x4	>15	N	IA	

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Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** [illegible]

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blyth Date: 30 Apr 09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	13	JH

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:55	91	7	0	0
End	7:10	80	5		

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-14	BBOJ D17	Y	Y	11S 0709141 3725570	P	5x4	>10	NO	IA	
J-14	BBOJ D18	Y	Y	11S 0709552 3725550	P	8x4	>12	NO	IA	
J-14	BBOJ D19	Y	Y	11S 0709508 3725569	P	6x4	>12	NO	IA	
J-14	BBOJ D20	Y	Y	0709557 3725554	P	4x4	>10	N	IA	
J-14	BBOJ L021	Y	Y	0709595 3725550	D	6x4	>12	N	IA	
K-15	BBOJ L022	Y	Y	0710546 3725050	D	6x4	>12	N	IA	
K-16	BBOJ L023	Y	Y	0710570 3724242	D	5x3½	>10	N	IA	
K-16	BBOJ L024	Y	Y	0710702 3724477	1	5x4	>10	N	IA	
K-15	BBOJ L025	Y	Y	0710695 3724774	1	5x4	>10	N	IA	
K-16	BBOJ L026	Y	Y	0710752 3724630	1	12x10	>12	N	IA	
K-17	BBOJ L027	Y	N	0710505 3724172	1	8x4	>15	N	IA	
J-14	BBOJ L028	Y	Y	0709610 3725497	1	9x4	>15	N	IA	
J-14	BBOJ L029	Y	Y	0709313 3725510	1	8x4	>15	N	IA	

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 4/30/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:30 AM	64	0.9	none	2
End	8:00 AM	70	2.2	none	50 (thin, high clouds)

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-4	BMADT004	Y	N	372 9986 709895	1	8x8	>18	none	IA	Suitable burrow out in open.
J-5	BMAMR014	N			2					Same
K-4	BMAMR013	N			2					Same
K-5	BMASC018	N			2				IA	Same, no BUOW sign
K-4	BMASC019	N			2				NS	Burrow ends 12" in.
K-4	BMACG025	N	Y		2					2 suitable burrows.
K-5	BMACG024	N			2					Same
K-4	BMASC017	N			2				NS	Burrow ends ~20" in.
K-4	BMARC007	N			1					Same. Several small unsuitable burrows nearby.

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Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM Site: Blythe Date: 4-30-29 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

white-winged dove

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 4/30/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	GARMIN D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0600 AM	64	0.9	0	0
End	0815 AM	70	2.2	0	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-5	BKBG005	N	N		1	6x8"	>24	None	IA	Base of creosote
K-5	BMAG021	N	N		1	6x6	~~8~~12"	None	NS ~~PA~~	Not suitable - not deep enough
K-5	BMASD017	N	N		1	6x8	>24	NONE	IA	Nice burrow
K-5	BMAG023	N	N		1	6x10	>24	W P	PA	Burrow in flat ground. 40° angle down to South 7 spots of WW from ground level to 6" below. Pictures at 0430h
			~~Y~~		~~1~~					
K-5	BMAG022	N	Y		1	4x4"	>12	NONE	IA	~5 burrows in complex ~ 12x24 feet
K-5	BKBG004	N	N		1	6x6"	>24	NONE	IA	In flat ground

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Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** DT 5/4

01SL745

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/2/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
B2/3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:20 AM	75	11.3	none	95
End	7:50 AM	77	6-8	none	100

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)

No burrows found

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

Project: SM Site: Blythe Date: 5-29-09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Lesser nighthawk
Say's phoebe
Black-throated sparrow
Great Basin collared lizard

Comments/Notes:

Reviewed by supervisor (initials)

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/2/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:00 AM	75	1-3	0	~~100~~ 75
End	7:50 AM	77	6-8	0	100

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (In.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
	BBCSA006	N	N	0703600 3729056	1	N/A	N/A	N/A	N/A	Barrel Cactus

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 5/3/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0500 AM	74	1	0	60
End	0930 AM	94	2	0	60

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F-14	BKBSA007	Y	Y	0707170 3725589	1	8x10	>36	None	IA	Total 4 suitable burrows. Lots of recent Kit fox scat.
E-11	BMASA008	Y	Y	0705716 3726710	0	12x10	>36	None	IA	Total 3 suitable burrows at base of Creosote

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/3/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:30 AM	70	1-3	none	75
End	8:00 AM	77	1-7	none	80

Potential BUOW Burrows:

	Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
Phase 3	E-12	BMADT004	Y	N	3726345 705813	1	12x12	>18	none	IA	Large burrow in bank of small drainage, cobwebs over entrance
Phase 3	E-13	BMADT005	Y	Y	3725683 705827	1	12x12	>18	none	IA	Large burrow in bank of wash, 4 other unsuitable nearby.
Phase 2											

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/31/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:10 PM	99	6-7	none	50
End	8:00 PM	91	10-1	none	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
	BMARC036	Y	N	0704865 3727742	1	10x8	>36"	None	IA	2 burrows, webs @ entrance

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** DT 5/4

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/3/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Hopanto

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:00pm	99	6.7	0	50
End	~~9:7~~ 8:00	91	10	0	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
E-10	BDBHS001	Y	N	0705817 3727081	1	8 x 7	24"+	NONE	IA	Rocky slope. DT scat; 2 photos

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

Project: SM Site: Blythe Date: May 3/09 Surveyor: H Spautz GPS Unit: B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Barrel Cactus.

BBCHS001- 0705308, 3727185
BBCHS002- 0705132, 3728013.
} small ~1" tall.

Comments/Notes:

Reviewed by

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5-3

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:10 pm	99	6.7	0	50
End	8:00	91	10.1	0	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
D-10	BMAEG004	Y	N	US 0705417 3727350	0	7x7	>24	None	IA	[illegible] N/A

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT C-

Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

tus: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by , but is of suitable size for occupancy). NS= Not Suitable

Proje

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

Project: SM Site: Blyth Date: 5/3 Surveyor: EG GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

BBCEG002 11S 0706758 3725530 = AM 5/2 5 [illegible]

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 5/3/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	530 PM	99	6.7	0	50
End	830 PM	91	10.1	0	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
E-10	BMASR008	Y	N	0705857 3727164	1	8x6	>24	None	IA	on 45° North facing slope
D-8	BMASR010	Y	Y	0704779 3728146	1	8x10	>24	None	IA	on flat ground - no veg - 6 burrows; only one suitable
D-8	BKBSD012	N	Y		?	8x8	>36	None	IA	2 large burrows under tree

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/4/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	C	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:20 AM	75	1-7	none	95
End	8:00 AM	80	0-6	none	90

Pag

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
D-11	BBBDT001	Y	~~Y~~ N	705123 3727010	0	10x9	>18	W, P	PA	Whitewash appears old, but is abundant. Very near BBBHS001 and BBBEG001 which both have BUOW sign as well.
D-10	BMADT007	Y	Y	705067 3727052	0	8x10	>18	—	IA	Burrow in vertical wall of large wash.
										2 burrows at base of gravelly slope.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

*Reviewed by surveyor (initials, date):*_____ *Approved by*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/4/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:20 AM	75	1.7	0	90
End	9:00	80	0.6	0	90

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
D-11	BBGEG001	Y	N	0705117 3727002	0	9x9	>24	N	IA	None to 2 other BB

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/7

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/4/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3 Blyth	B	H Spanz

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5 am	75	1.7	0	95
End	8 am	80	0.6	0	90

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
D-11	BBBHS001	Y	N	705134 3727023	1			PW	PA	Rocky slope, moderate w/w.
										tracks in mouth of burrow
										look like rodent
C-9	BMAHS001	Y	N	704181 3727966	1	6x6	12+	~~IA~~ NONE	IA	Base of slope in wash next
										to creosote. Turns @ right
										cannot see depth.
C-9	BMAHS002	Y	Y	0704160 3727937	1	9x9	24"+	NONE	IA	one large deep burrow, several
										other smaller. Arched like
										DETO but only small
										rodent droppings + tracks
										visible. ON central transect
										base of wash next to large
										grass [Prob not active Buow]

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

Project: SM **Site:** Blythe **Date:** 5/4/09 **Surveyor:** H Spautz **GPS Unit:** B

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Barrel cactus 704223 3727911

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** BLYTHE **Date:** 5/4/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	D	Sean Avent

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:20 AM	75	1.7	0	75
End	9:00 AM	80	0.5	0	90

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C-9	BMASA011	Y	Y	0704548 3727680	1	8x8	>24	None	IA	looks like a wood rat nest on vertical cliff face.
										Other burrows present, but too small for BUOW

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1] **Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3] **Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* DT 5/4

0705081

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: May 12, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time am	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:20	69°	4 mph	0	0
End	7:40				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
F9	BMACG051	N	N	n/a	1	7"x7"	36"	no	IA	burrow narrows after 24"
G9	BMACG053	N	N	n/a	1	8"x10"	30"	no	IA	creosote mound
G9	BMARW026	N	N	n/a	1	5"x3"	4"	no	—	mostly colapsed
G9	BMACG061	N	N	n/a	1	7"x4"	14"	no	—	under tree
G9	BKBRW005	N	Y(5)	n/a	1	5"x5"	6"-12"	no	—	all 5 burrows in varying states of colapse
G9	BKBSC012	N	Y(2)	n/a	1	14"x14"	18"	no	—	Mammal burrows in heavy brush
G9	BMACG060	N	N	n/a	1	5"x5"	16"	no	—	adjacent to two colapsed burrows
G9	BMACG059	N	N	n/a	1	7"x6"	14"	no	—	dense brush
G9	BMACG058	N	N	n/a	1	4"x16"	12"	no	—	dense brush; partial colapse
G8	BMARW016	N	N	n/a	1	8"x10"	18"	no	IA	in open near brush
G9	BMACG055	N	N	n/a	1	7"x8"	16"	no	—	creosote mound
G9	BMAMR034	N	N	n/a	1	10"x12"	10"	no	—	mostly colapsed; under large tree
G9	BMARW025	N	N	n/a	1	—	—	no	—	colapsed; dense brush
G10	BMAMR032	N	N	n/a	1	9"x12"	24"	no	IA	creosote mound; spider webs over opening

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): MI *Approved by team leader (initials, date):* JR

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5/12/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:20 AM	69°	4.0	0	0
End	7:30 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
G-4	BMASC038	N	N	—	1	6x8	>18	—	IA	Burrow well concealed under shrub.
G-4	BKBSC011	N	Y	—	1	7x6	>18	W	PA	Large kitfox complex, 13 suitable burrows. 1 burrow has copious whitewash, but it's old.
G-4	BKBMG003	N	Y	—	1	8x6	>18	W, P	PA	Photo 001 Burrow with sign has cobwebs over entrance. ~~Large kit~~
										Large kit fox complex, 9 suitable burrows. 2 burrows have ~~sign~~ sign, one fresh, one old. Photos 002 and 003
G-4	BMASC045	N	N	—	1	6x4	>18	—	IA	Suitable burrow out in open.
G-5	BMASC040	N	N	—	1	6x6	>18	—	IA	Under shrub, partially blocked by roots.
G-5	BMAMG015	N	N	—	1	6x6	>18	—	IA	Under creosote, partially blocked by branches.
G-5	BKBMG002	N	N	—	1	7x7	>18	—	IA	Suitable burrow
G-5	BMAMG019	N	N	—	1	7x4	>18	—	NS	Burrow narrows to less than 2" ~6" in.
G-5	BMARW022	N	N	—	1	6x8	>18	—	IA	Burrow turns left.
G-6	BMAMG018	N	N	—	1	8x6	12	—	NS	Burrowends
G-6	BMASC042	N	Y	—	1	6x4	>18	—	IA	2 marginal burrows next to each other.
G-6	BKBSC010	N	Y	—	1	6x8	>18	—	IA	Disused kit fox complex, 2 suitable burrows.
G-6	BMARW019	N	N	—	1	7x5	>18	—	IA	Suitable burrow

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Map	Ident	News	Complex	Coord.	#	[illegible]	[illegible]	Sign	Status	Comments
G-6	BMASC039	N	N	—	1	7x5	>18	—	IA	Suitable burrow
G-6	BMASC043	N	N	—	1	6x6	>18	—	IA	Suitable burrow

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5-12-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:20 AM	69°	4	0	0
End	7:40 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
G7	BMAMG012	N	N		1	9x8	>36	W	PA	6-7 splashes of W. Good mound. Burrow faces west.
G7	BMASC044	N	N		1	5x5	>24	NONE	IA	
G7	BMAMG017	N	N		1	8x6	>36	NONE	IA	very suitable width good half-cut.
G7	BCBMG001	N	Y		1	6x3	>12	W, P	IA/PA	old W+P, but all burrows in complex are pipes except 1 with W which is too small
G7	BMASC041	N	N		1	10x10	>24	W	PA	Is under tree; so W could be other birds. Old L. mammal scat around burrow.
G7	BMARW021	N	N		1	6x6	>24	W	PA	Small splash of W. Burrow curves of left.
G7	BMAMG020	N	N		1	6x6	>24	NONE	IA	No arrows
G7	BMARW020	N	N		1	7x9	>24	NONE	IA	East of bush
G8	BCBRW004	N	N		1	10x10	>36	W	PA	Is under bush so small amount of W. could be other birds
G8	BMAMG014	N	N		1	10x8	>24	W	PA	Small amount of W - 1 splotch
G8	BMARW015	N	N		1	10x10	>36	W	PA	2 teeny splotches, I rubbed away
G8	BMAMG016	N	N		1	8x6	>24	W	PA	Teeny amount of W, I rubbed away. Branch over it - could be other birds
G8	BMARW018	N	N		1	6x5	>24	NONE	IA	
~~G8~~	~~BMAMG013~~									
~~G8~~	~~BMASC039~~									

6

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JS

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5/12/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:40am	69	4	0	0
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
F-10	BMACG052	N	N		1	8, 5	12+	none	IA	under perennial Grass
F-9	BMAGG050	N	N		1	7, 7	18+	none	IA	under creosote, debris
G-9	BMARW024	N	N		1	6, 5	12	none	NS	ends @ 12"
G-9	BMAMB033	N	N		1	—	—	—	—	couldn't find
G-9	BMAGG056	N	N		1	7, 5	10+	none	IA	under creosote, lots of debri in front
G-9	BKBMR008	N	N		1	11, 8	18+	none	IA	photo 54, KF Scat
G-10	BMAMR036	N	N		1	8, 7	18+	none	IA	under creosote,
G-10	BMMR004	N	N		1	6, 5	18+	none	IA	cobwebs, adjacent to wash channel
G-10	BMAMR038	N	N		1	7, 6	18+	none	IA	good burrow but no sign
G-10	BMAMR039	N	N		1	8, 7	18+	none	IA	under creosote, roots
G-10	BKBRW006	N	Y(3)		1	7, 6	18+	none	IA	small complex
G-10	BMAMR037	N	Y(4)		1	8, 8	18+	none	IA	good burrow, but no sign
G-10	BMACG054	N	N		1	7, 5	12+	none	IA	burrow goes to R.
F-10	BKBMR001	N	Y(15+)		1	8, 8	18+	none	IA	very large complex, many good burrows, old scat

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JP

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: May 12, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 pm	98	2	0	0
End	8:15			0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
D7	BMAMR001	N	N	n/a	3		36"	wash	PA	wash seems weathered; no other sign
								* MI051209_01		observed 5:45-6:30 - no owls
										observed 7:30-800
D7	BMALG015	N	N	n/a	3	8"x5"	18"+	no	—	Burrow narrows significantly
	observed	7 Night hawks between 7:15 and 7:25								after 12"; small mammal scat present
										A few collapsed burrows in vicinity
E8	BKBSD007	N		n/a	3		36"	wash	PA?	two small amounts of wash
										Fair amount of small mammal scat
										no other sign; observed 6:55-7:10
										several collapsed burrows in vicinity

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Es-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5-12-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 PM	98	2 mph	0	0
End	8:15 PM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
	BMACG015	N	N			8×6	>24	W	PA	Burrow faces West on side of big dirt. I would approach from West to avoid being right on top of it. Observed with spotting scope for 2h no owl seen. Lots of W.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JB

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/12/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30	98	2	0	0
End	8:15				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresl etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
J-5	BKBCB007	N	Y			8, 9	18+	none	IA	old KF scat, some burrows
H-5	BMAMR023	N	N			10, 10	18+	none		collapsed No BUOW sign
									IA	lg Mammal Burrow, no sign
										under grass & Creosote
H-5	BMAMR025	N	Y (10+)			10, 12	18+	none	IA	old KF scat No BUOW sign

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JP

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: May 13, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30	69°	1 mph	0	0
End	8:15	84°	2 mph	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
H4	BMAJP009	N	Y(4)	n/a	2	Same	Same	Pellet	PA	one dried out pellet; Four large
								* MI051309_01		burrows around 2-creosote bush
										mound; several stink beetles present
K5	BMASC018	N	N	n/a	3	same	same	no	—	this burrow is less than 18" deep,
										there is no sign present at
										this burrow or the other burrow
										10 meters north that is probably
										more suitable for BUOW occupation.
E12	BMAMR019	N	N	n/a	1	12"x4"	12"	no	—	Under tree roots; filled with
										debris and spider webs
E12	BDBCG003	N	N	n/a	1	8"x5"	12"	no	—	caving in; narrows after 8"
E12	BMASC022	N	Y(3)	n/a	1	10"x8"	12"+	Pellet	PA	burrows all curve; the pellet
										is dried out and breaking down.
										no other sign present.

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Reviewed by surveyor (initials, date): MI *Approved by team leader (initials, date):* JB

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5/13/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:27	67°	1 mph	0	0
End	8:15	84	2	0	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
G-5	BMARW010	N	N		2			W	PA	old sign, cobwebs
J-6	BMACG027	N	N		1			none	IA	no sign, cobwebs
K-5	BMACG023	N	Y(2)		3	8, 10	18?	W	PA.	old wash, photo 75
	BMAJH015	N	N		1	8, 3	9	none	NS	partially filled-in, not suit
F-10	BBRW001	N	N		3			W, P	PA	
F-10	BBBG001	N	N		3			W	PA	cobwebs,
☆ J-6	BBCJP001									Barrel Cactus, photo 74, 73

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* [illegible]

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5-16-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30	90	4	0	0
End	7:40				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
Buffer	BBBEG002	Y	Y	0709475 3721134	0	5x7	>24	W, P, B	PA	Splash of W, 1 old bone-filled pellet, 1 old bug pellet, rodent skull. In KB complex, Burrow to west has small patch of W.

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JS

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5/17/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	JB

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:21pm	99	1	0	50
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
6-5	BMAR011	N	N		3	—	—		IA	
6-5	BMAM6009	N	N		3	—	—	N	IA	tiny bit of WW, near

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JB

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: May 17, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:35 pm	100	4	0	50
End	7:35 pm				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
F22?	BBOMI001	Y	N	0106129 3720017	2	5" x 4"	18"	Wash, Pellet	PA	old wash, one pellet disolving

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Reviewed by surveyor (initials, date): [illegible] *Approved by team leader (initials, date):* [illegible]

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/17/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT, EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:00 PM	108	1-2 avg	none	85
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
B-7	BDBSD011	N	N	—	1	42x18	—	—	NS	Huge burrow in side of wash, goes all
B-6	BDBGL020	N	N	—	1	24x12	>24	W	PA	the way through and can see light coming in other end.
										→ Large burrow in side
										of wash. 1 small splatch
										of W. in entrance. More
										W. on ridge directly
										above burrow.
B-5	BDBSD012	N	N	—	1	8x8	?	—	NS	Burrow fully shrouded by brush, not suitable.
C-4	BMAJP007	N	N	—	2				PA	Huge burrow with abundant old
~~C-4~~										Buow sign. No BUOW seen.
C-4	BMAJP006	N	N	—	2					No new BUOW sign.

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JP

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: May 17, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:35	99	0	0	40%
End	7:35	86	2mph	0	70%

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
E12	BMAMB019	N	N	n/a	2	Same	Same	NO	—	excavated against palo verde trunk; too shallow; debris & webs; don't visit again
E12	BDBCC003	N	N	n/a	2	Same	Same	NO	—	too shallow; wall of drainage; don't visit again
E12	BMASC022	N	Y	n/a	2	Same	Same	NO	—	no sign → no need to visit again
										Kit fox scat present
	BBOMI001	N	N	n/a	1	Same	Same	wash pellet	PA	scraped all wash away from opening to assess if new wash is present

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Reviewed by surveyor (initials, date): MI *Approved by team leader (initials, date):* JP

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: May 18, 2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	Mike Ireland

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30	78	2mph	0	40
End	8:00				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
	BMA5C050	N	N	n/a	1	6"x5"	18"+	wash	PA	single burrow in the open
	BBBRW002	N	N	n/a	1	7"x8"	24"+	wash, feather	PA	significant amount of fresh wash
	BMACG066	N	Y	n/a	1	9"x5"	12"	wash (old)	PA	single viable burrow in mostly collapsed complex
	BBBMR001	N	N	n/a	1	8"x7"	24"	wash, pellet	PA	fair amount of fresh wash
	BMACG069	N	N	n/a	1	3"x3"	5"	no	—	UNSUITABLE
	BMAMG025	N	Y	n/a	1	10"x10"	36"+	no	IA	numerous small GSB w/ 5m
	BBSLJ065	N	N	n/a	1	7"x5"	18"	no	—	narrows after 12"; spider webs in opening

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5/18/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3/2	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30	88°	4	0	40
End	8:01				

Potential BUOW Burrows:

	Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
Phase 3	K-9	BMASC051	N	N	—	1	5x5	>18	W	PA	Burrow out in open with old whitewash.
	K-9	BMASC056	N	N	—	1	6x6	12	F	NS	Burrow under creosote, 1 feather in front. Burrow ends 12" in, has cobwebs in entrance.
	J-10	BBCG001	N	Y	—	1	10x6	>18	W, P	PA	Large burrow complex, 10 suitable burrows. 3 have whitewash and/or pellets, but all old.
Phase 2	J-11	BBORW001	N	N	—	0	—	—	W	NS	Not a burrow. Perch on dead tree with abundant whitewash below, most likely from many different kinds of birds, not necessarily BUOW.
	H-11	BBBCG002	N	Y	—	0	8x6	>18	W, P, F	A	Old disused kit fox complex, 1 burrow has a huge amount of fresh whitewash.
	L-12	BBOJ014	N	Y	—	2	—	—	W	PA	One spot of old whitewash at burrow next to small creosote

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 5-18-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30 AM	86°	4	0	0
End	8:00 AM				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc, and go to page 3.)
J8	BMASC057	N	N		1	8x8	>24	W, ~~P~~	PA/IA	Old W in entrance. Lizard entered burrow, which probably indicates no owl.
~~K9~~	~~BKKR~~									
K9	BKBRW009	N	N		1	8x6	24	W	IA	Ends 24" in
K10	BMAEE001	N	N		1	8x8	>24	W, P	PA	Old W, old degraded possible bone-filled pellet - may be old mammal scat as there is other mammal scat around
	~~BBOSL017~~									
	~~BBOSL017~~									
	BBOLJ089	N	Y		1	10x10	>24	NONE	IA	KB complex - 6 or 7 suitable burrows but look in use by Kit fox

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* S

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/18/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:30	96	4	0	0
End	9:00				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
J-6	~~BKMSH016~~ BMAMG009 ~~BMAMG009~~	N	Y		1			W,	PA	tiny bit of old sign very marginal, rule out
J-7	BMAMJH016	N	~~Y~~ N		1			W	PA	after 1 more visit if nothing changes → Cobwebs in burrow but nice burrow
K-6	BMAMR041	N	Y		1	9, 6	18+	W, P	PA	old sign but worth looking again
K-6	BKBCG010	N	Y		1	10, 7	18+	W	PA	Kitfox tracks, old sign (W)
K-6	BKBCG009	N	Y		1	9, 7	18+	W	PA	whitewash (old) Kitfox tracks
K-6	BKBMG004	N	Y		1	10, 7	18+	W	PA	Sign check again

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* JP

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-10-09 7/5

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:40 PM	90°	13 mph	0	95
End	8:15 PM	83	10 mph	0	95

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J13	BMAJB049	N	N		0	6x7	>24	NONE	IA	May ens
J13	BMAEE068	N	N		0	6x4	12	NONE	NS	Narrows do 3x2
J13	BMAKD024	N	Y		0	5x4	>12	NONE	IA	2-3 suitable in RTGS complex
J13	BKBJB003	N	Y		0	7x7	>24	NONE	IA	5-6 KB burrows
J13	BMAEE069	N	Y		0	4x4	>12	NONE	IA	RTGS colony
2 J13	BMAEE075	N	Y		0	4x4	>12	NONE	IA	RTGS colony
J12	BMAEE074	N	N		0	5x5	6	NONE	NS	Ends
J12	BMAEE071	N	N		0	5x5	12	NONE	NS	ENDS
J12	BMAKD025	N	N		0	7x7	12	NONE	NS	ENDS
J12	BMAJB052	N	N		0	6x7	>24	NONE	IA	
3 J12	BMAKD031	N	N		1	7x8	>24	NONE	IA	
J12	BMANS011	N	N		1	6x6	12	NONE	NS	ENDS
J12	BMAJB067	N	N		1	7x7	12	NONE	NS	ENDS
J12	BMAJB066	N	N		1	8x8	>36	P?	PA	possible pellet; no W

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3] Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): EG 6-10 *Approved by team leader (initials, date):*

Project: SM Site: Blythe Date: 6-10-09 Surveyor: EG GPS Unit: E

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J12	BKBJB004	N	Y		1	10x10	>48	NONE	IA	Freshest scat is much bigger than KB - 3x1" - dog?
J12	BMAJB057	N	N		1	8x8	>48	NONE	IA	
J12	BMAJB061	N	N		1	8x8	36	NONE	IA	
J12	BMAJB068	N	N		1	6x6	>36	NONE	IA	
J13	BMANS002	N	N		1	6x6	36	NONE	IA	
J13	BMAJB069	N	Y		1	7x7	>24	W	IA	Very old, small splatch of W but entrance of both are covered by cobwebs 2 burrows
J13	BMAKB032	N	Y		1	8x8	>36	NONE	IA	2 burrows, prob. KB
K13	BMAEE053	N	N		1	7x7	>36	W	PA?	2 old splotches of W.
K13	BMAEE056	N	Y		1	4x4	>24	NONE	IA	RTGS - 3 or 4 suitable
K13	BMAKP013	N	N		1	8x8	>36	NONE	IA	Cobwebs in entrance
K13	BMAEE057	N	N		1	5x5	>36	NONE	IA	
K13	BMAJB041	N	Y		1	4x4	>12	NONE	IA	RTGS complex, 1 suitable
K13	BKBJB002	N	Y		1	8x8	36	NONE	IA	2 old KB
K13	BKBKD004	N	Y		1	8x8	48	P	PA	6 suitable KB burrows - pellet at one, poss. pellet at another
K13	BMAJB048	N	Y		1	5x5	24	NONE	IA	1 in old RTGS colony
K12	BMAKP020	N	N		1	7x7	>24	W	PA	Big splotch of W
K12	BMAKP021	N	N		1	8x8	>24	NONE	IA	
K12	BMAEE066	N	N		1	4x6	24	NONE	NS	Narrows to 3x2

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Project: SM Site: Blythe Date: 6-10-09 Surveyor: EG GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Lesser Nighthawk, bats, whiptail,

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-10-09 8/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	C	JM

	Time	Temp (°F)	Ave mph Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:00	90	8		85
End	3:15 pm	83	10	0	90

5:48, 8:15 -Bro

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA) NS	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H12	BMABV001	N	N	—	0	9x6	11	W	PA	Short burrow w/ fill-in sand. Older whitewash. Kit fox scat
H12	BMAKD032	N	N	—	0	10x6.5	>18	NONE	IA	Burrow curves left. Bleached kit fox scat. KB
H12	BMABV002	N	N	—	0	10x11	>20	NONE	IA	Burrow curves right. Adjacent to original burrows.
H12	BMABV008	N	N	—	0	9x5	10	NONE	NS	Burrow ends and is filled in at end
H12	BMABV006	N	N	—	0	7x4	>14	NONE	IA	Burrow curves right.
H12	BMABV005	N	N	—	0	8x7	8	NONE	NS	Burrow ends & filled in towards end.
H12	BMANS004	N	Y	—	0	13x12	>20	NONE	IA	Suitable: 1 NS: 1 Curves left after 11 in. Maintains height as it deepens.
H12	BMAEL001	N	N	—	0	12x16	>16	NONE	IA	Tall deep burrow, curves right, possible k. fox though usage, no sign
H12	BMAKD035	N	Y	—	0	7.5x10.5	>24	NONE	IA	IA: 3 (#) NS: 1 (#) Tallest burrow curves right
H12	BMANS005	N	N	—	0	6.5x11	13	NONE	NS	Burrow curves left & then ends.
H12	BMAMG040	N	N	—	0	8x10	16	NONE	NS	Burrow curves right & narrows @ end.
H12	BMAKD036	N	N	—	0	11x9	11	NONE	NS	Burrow curves left and ends. Small mammal, jackrabbit tracks
H12	BMAEL002	N	N	—	1	10x5	7	NONE	NS	Burrow ends.
H12	BMAPS009	N	Y	—	1	11x5	>7	NONE	IA	Suitable: 1 NS: 3 Burrow curves left. 3 burrows caved in/filled in.
H12	BMAMG043	N	N	—	1	6x8	10	NONE	NS	Burrow ends at 10 inches.

548 → Photo

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): JM *Approved by team leader (initials, date):*

Project: SM **Site:** Blythe **Date:** 6/10/09 **Surveyor:** Josh Medar **GPS Unit:** C

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H12	BKBEL001	N	Y	—	1	7x20	>16	NONE	IA	Suitable: 4 Multiple burrows. Kit fox scat. Burrow curves right
H12	BKBGL035	N	N	—	1	8x13	>18	NONE	IA	Deep burrow with jackrabbit tracks near (KB)
H12	BKBSD022	N	N	—	1	5x8	>36	NONE	IA/NS	Long & straight burrow; Kit fox scat.
H12	BKBGL032	N	N	—	1	6x14	>24	NONE	IA/NS	Curves right, deep burrow; Kit fox scat; KB.
H12	BKBGL028	N	Y	—	1	5x5	>14	NONE	IA	Suitable: 3 Main burrow curves left, complex intergrade with g. squirrel burrows. Not suitable: 3;
H12	BMASD044	N	N	—	1	6x12	>10	NONE	IA	Curves right @ 7 inches. Tall/deep.
H12	BMAES008	N	N	—	1	9x10	7	NONE	NS	Burrow ends, filled in w/sand.
H12	BMAES007	N	Y	—	1	6x8	>14	NONE	IA	Burrow curves right. 1 suitable 1 not suitable
H12	BMAES006	N	Y	—	1	12x16	>12	NONE	IA	2 large entrances. Suitable: 2 no scat found. Curves right. Appears to be KB; small mammal tracks
H12	BMAGL055	N	Y	—	1	8x7	>36	NONE	IA	2 Burrow holes in line with each other 4 feet apart. Long & straight. Appears to be KB.
H12				—	1					
H12				—	1					
H12				—	1					
H12				—	1					
H12				—	1					
H12				—	1					
H12				—	1					
H12				—	1					
H12				—	1					

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

TM

Project: SM Site: Blythe Date: 6-10-09 Surveyor: SM GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Nighthawk

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** June, 10, 2009 o/ns ~~8:30~~ 5:48 8:15 Protocol Survey

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:40pm	90°	13 mph	0	95
End	8:15 pm	83°	~10	0	

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-11	BKBEE002	N	Y	—	1	6x4	>12	P(very old)	IA	Sign observed was very old.
H-11	BBBCG002	N	N	—	1	6x4	>12	W	PA	Lots of White Wash, no pellets
	BKBCG012	N	Y	—	1	8x6	>12"	NONE	IA	
	BMAJL007	N	N	—	1	8x8	>12"	NONE	IA	~~KF~~ Den
	BMAES010	N	N	—	1	8x6	>10"	NONE	IA	
	BKBGL031	N	N	—	1	4x8	>12"	NONE	IA	KF Den
	BKBSD021	N	N	—	1	5x5	>6"	NONE	IA	webs @entrance. Burrow curves right
	BMASD039	N	N	—	1	5x3	>4"	NONE	IA	Burrow curves right
	BMAAD050	N	N	—	1	6x4	>10	NONE	IA	Curves left
G-11	BMASD034	N	N	—	1	4x4	4"	None	IA	short Burrow. Not useable
	BMAAP047	N	N	—	1	4x4	>3"	None	IA	Curves right. @ base of larrea
	BMAAD048	N	N	—	1	4x6	8"	NONE	IA	
phone 3										
G-11	BMAAD045	N	N	—	1	8x6	6"	NONE	IA	Burrow collapsed @ 6" in
G-11	BMASP032	N	N	—	1	6x3	>6"	NONE	IA	Debris Blocking entrance

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): RC 6/10/09 *Approved by team leader (initials, date):*

Project: SM **Site:**_____ **Date:** _____ **Surveyor:** _____ **GPS Unit:** _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G-12	BKBSD018	N	N	—	1	4x3	6"	NONE	IA	Burrow shrinks to 2x2
	BMAAD046	N	N	—	1	6x4	6"	None	IA	Debris blocking entrance in bank of wash
	BMAGL047	N	Y	—	1	6x5	>8"	NONE	IA	—
	BBBAD001	N	N	—	1	6x6	>12"	W, P	PA	Feathers from Prey in Burrow. Base of Palo Verde tree
	BBBSD003	N	N	—	1	5x6	>6"	NONE	IA	@ Base of Tree. Not suitable.
	BMAGL048	N	N	—	1	6x6	>12"	None	IA	webs @ entrance
	BMAGL046	N	N	—	1	7x7	>10"	None	IA	possible Badger Den
	BKBGL025	N	N	—	1	5x7	>12"	None	IA	Kit Fox scat @ entrance
	BMAAD049	N	N	—	1	5x6	>10"	NONE	IA	—
	BMASD033	N	N	—	1	6x5	6"	NONE	IA	tunnel has collapsed
	BKBAD008	N	N	—	1	8x6	>12	None	IA	mammal tracks @ entrance
H-12	BMAGL050	N	N	—	1	6x5	>5"	None	IA	curves right
	BOBAD028	N	N	—	1	5x3	>6"	None	IA	curves right

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[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Project: SM **Site:** Blythe **Date:** June/10/07 **Surveyor:** R. Conohan **GPS Unit:** A

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

- Lesser Nighthawk
- ~~Ke~~ zebra-tailed Lizard
- Turkey Vulture
- Bats (2)
- Ash-throated Flycatcher
- Loggerhead Shrike
-

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

13/15

Project: SM Site: Blythe Date: 6/10/2009 PM Survey Page 1

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:30PM	89	13.3 avg	none	95
End	8:15PM	83	9.3 avg	none	95

Potential BUOW Burrows:

Phase 2

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-15	BMANS017	N	N	—	0	6x9	8	—	NS	Burrow ends.
K-14	BMAKD018	N	N	—	0	7x6	6	—	NS	Burrow ends.
K-14	BMAJB040	N	N	—	0	7x4	>18	—	IA	Burrow out in open.
K-14	BMAEE059	N	N	—	0	6x8	>18	—	IA	Burrow curves left, cobwebs in entrance.
K-14	BMAJB042	N	N	—	0	8x6	10	—	NS	Burrow ends.
K-14	BKBEE005	N	Y	—	0	12x8	>18	—	IA	Kit fox complex, 6 suitable burrows.
K-15	BKBKD005	N	Y	—	0	8x8	>18	—	IA	Kit fox complex, 11 suitable burrows.
K-15	BKBKD008	N	Y	—	0	5x6	>18	W	PA	Kit fox complex, 9 suitable burrows, 2 have old whitewash.
K-14	BMAEE052	N	Y	—	0	6x4	>18	—	NS	Old, disused kit fox complex. All burrows either collapsed or narrow to unsuitable size.
K-14	BMAEE055	N	N	—	0	10x4	6	—	NS	Burrow ends.
J-14	BMAJB050	N	Y	—	0	5x4	>18	—	IA	1 marginal burrow in RTGS complex.
J-14	BMAJB051	N	N	—	0	6x6	8	—	NS	Burrow ends.
J-14	BMAEE070	N	Y	—	0	6x4	>18	—	IA	Old, disused kit fox complex. 1 suitable burrow with cobwebs over entrance, all other burrows collapsed
J-14	BMAEE071	N	N	—	0	6x6	>18	—	IA	Suitable burrow
J-15	BMAJB053	N	N	—	0	10x10	>18	—	IA	Large burrow on side of small bank, curves left.

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[1] Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3] Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM **Site:** Blythe **Date:** 6/10/2019 **Surveyor:** DT **GPS Unit:** D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-14	BMAEE076	N	N	—	0	8x10	>18	—	IA	Large burrow out in open.
J-14	BMAEE080	N	N	—	0	10x10	>18	—	IA	Large burrow at base of creosote, cobweb over entrance.
J-14	BMAKD028	N	N	—	0	8x18	>18	—	IA	Large, tall burrow. Narrows to ~4"x3" 24" in.
J-14	BMAJB054	N	N	—	0	7x7	>18	—	IA	Suitable burrow.
J-14	BMAKD027	N	N	—	0	10x8	12	—	NS	Burrow ends.
J-13	BMAEE073	N	Y	—	0	6x4	>18	—	IA	1 suitable burrow in RTGS complex.
J-13	BMAEE072	N	N	—	0	7x5	6	—	NS	Burrow ends.
J-13	BMAEE079	N	N	—	1	8x4	9	—	NS	Burrow ends.
J-13	BMAEE078	N	Y	—	1	6x8	>18	—	IA 2	Suitable burrows at base of creosote.
J-13	BMAKD029	N	N	—	1	8x8	>18	—	IA	Burrow curves to left, cobwebs at entrance.
J-13	BMAKD030	N	Y	—	1	7x8	>18	—	IA	3 suitable burrows in complex.
J-13	BMAEE084	N	N	—	1	7x4	9	—	NS	Burrow ends.
J-13	BMAEE081	N	N	—	1	7x4	6	—	NS	Burrow ends.
J-13	BMAKD026	N	N	—	1	9x6	10	—	NS	Burrow ends.
J-13	BMAEE082	N	N	—	1	7x6	6	—	NS	Burrow ends.
J-13	BMAEE083	N	N	—	1	8x6	>18	W	PA.	2 splotches of old whitewash, branches partially blocking entrance Photo 001
J-13	BMAJB055	N	N	—	1	7x6	>18	—	IA	Burrow at base of creosote.
J-13	BMAJB056	N	N	—	1	8x10	>18	—	IA	Burrow at base of creosote, curves right.
J-13	BMAJB058	N	Y	—	1	7x6	>18	—	IA	1 marginal burrow in complex, others end.

Phase 2

Phase 3

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/10/2009 PM Survey Page 2 2/ns

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start					
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-13	BMAJB062	N	N	—	1	9x6	>18	—	IA	Burrow curves right.
J-13	BMAJB059	N	N	—	1	8x8	10	—	NS	Burrow ends.
J-13	BMAJB060	N	N	—	1	6x2	4	—	NS	Burrow ends.
J-13	BMAJB064	N	N	—	1	8x5	>18	—	IA	Burrow at base of creosote, cob webs in entrance
J-13	BMAJB065	N	Y	—	1	6x6	>18	—	IA	4 suitable burrows in kit fox complex, fresh kit fox scat.
K-13	BMAEE054	N	Y	—	1	5x4	>18	—	IA	5 marginal burrows in RTGS complex.
K-13	BKBJB001	N	Y	—	1	6x8	>18	—	IA	7 suitable burrows in kit fox complex.
K-13	BKBKD004	N	Y	—	1	8x8	>18	—	IA	13 suitable burrows in kit fox complex.
K-13	BMAKD019	N	Y	—	1	8x8	12	—	NS	2 burrows, both end.
K-13	BMAEE060	N	Y	—	1	8x5	>18	—	IA	1 suitable burrow in old, degraded kit fox complex.
K-13	BKBKD007	N	Y	—	1	7x10	>18	—	IA	4 suitable burrows in kit fox complex.
K-13	BKBKD006	N	Y	—	1	5x6	>18	—	IA	8 suitable burrows in kit fox complex. fresh kit fox sign.
K-13	BMAKD017	N	Y	—	1	4x5	>18	—	IA	1 suitable burrow in old, degraded kit fox complex.
K-13	BMAEE058	N	N	—	1	8x6	>18	—	IA	Suitable burrow.

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1] **Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3] **Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM Site: Blythe Date: 6-10-09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Zebra-tailed lizard
Side-blotched lizard
Lesser nighthawk
Bats

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 5/10/09 10/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	3:32 pm	90°F	10 mph	17.6 %	90
End	8:15 pm	82°F	12 mph	22 %	70

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G-13	BMAAD044	N	Y (2)		0	7, 8	18+	none	IA	2 nice size burrows but no sign
G-13	BMAGL045	N	N		0	5, 6	8	none	NS	ends after 8"
G-13	BKBGL021	N	Y (see note)		0	7, 5	8+	none	IA	Complex but only 1 suitable burrow
G-13	BMASD036	N	N		0	6, 4	6	none	NS	burrow restricts @ 6"
G-13	BKBSD019	N	Y (6)		0	7, 5	12+	none	IA	old KF scat
G-13	BKBAD009	N	Y (5)		0	5, 7	18+	none	IA	lots of old KF scat
H-13	BMASD035	N	Y (0)		0	3, 3	12+	none	NS	Small RT GS burrows, none suitable
H-13	BBBGL004	N	Y (1)		0	7, 5	12+	none	IA	Complex but only 1 suitable burrow
H-13	BKBSD023	N	Y (3)		0	7, 5	18+	none	IA	lots of KF scat 3 suitable burrows
H-13	BKBMG008	N	Y (10)		0	9, 8	18+	none	IA	abundant KF scat, photo 90+91
H-13	BMAMG041	N	Y (2)		0	4, 4	18+	none	IA	complex of RT GS burrows only 2 suitable
H-13	BMABV007	N	N		0	6, 7	12	none	NS	ends @ 12"
H-13	BMANS003	N	N		0	8, 6	10	none	NS	ends @ 10"
H-13	BMABV004	N	N		0	7, 5	12	none	NS	ends @ 12"
H-13	BMAPS008	N	N		0	9, 4	12+	none	IA	under creosote, adjacent to wash

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM **Site:** Blythe **Date:** 6/16/09 **Surveyor:** JP **GPS Unit:** B

Potential BUOW Burrows (cont.): 3

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-13	BMAMG042	N	N		1	7,5	10	none	NS	ends @ 10"
H-13	BMAKD034	N	N		1	8,9	12+	none	IA	cobwebs, next to creosote
H-13	BMABV003	N	Y(2)		1	6,5	12+	none	IA	no sign
H-13	BMAES014	N	N		1	8,6	18+	none	IA	under creosote
H-13	BMAES009	N	Y(3)		1	7,6	18+	none	IA	3 suitable burrows
H-13	BMASD042	N	N		1	9,7	16	none	NS	ends @ 18"
H-13	BMASD043	N	N		1	9,8	18+	none	IA	next to ironwood snag
H-13	BKBGL033	N	N		1	8,6	12+	none	IA	cobwebs
H-13	BKBGL030	N	N		1	8,6	12+	none	IA	Nice burrow but no sign
H-13	BKBES002	N	N		1	7,6	12+	none	IA	forked burrow
H-13	BKBSD020	N	Y(2)		1	8,12	18+	none	IA	2 suitable burrows, no sign
H-13	BMAES0041	N	Y(2)		1	9,7	12+	none	IA	old kitfox sign
H-12	BMAGL054	N	N		1	10,8	12+	none	IA	under creosote
H-12	BMAGL056	N	N		1	8,7	24+	none	IA	nice burrow but no sign
H-12	BKBGL029	N	Y(2)		1	9,6	18+	none	IA	cobwebs
H-12	BKBGL034	N	Y		1	8,7	12	none	NS	ends @ 12"
H-12	BMASD041	N	Y		1	9,6	12	none	NS	ends @ 12"
H-12	BKBES003	N	N		1	7,6	18+	none	IA	creosote branches blocking entrance
H-12	BMASD040	N	N		1	9,6	18+	none	IA	ironwood branches blocking entrance

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Project: SM Site: Blythe Date: 6-10-09 Surveyor: JP GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

road runner, Zebra tail Liz. nighthawk, bats, RTGS

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/10/09 Cont.

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	JB

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start					
End					

see front page

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-12	BMAGL053	N	Y (3)		1	8,7	18+	none	IA	2 out of 3 burrows suitable
H-12	BKBGL026	N	N		1	9,7	18+	none	IA	nice burrow but no sign
H-12	BMASD037	N	N		1	7,7	18+	none	IA	nice burrow but no sign
H-12	BMAGL049	N	N		1	8,7	18+	none	IA	" "
H-12	BMASD038	N	Y		1	7,6	12+	none	IA	under ironwood snag / suitable
H-12	BKBGL027	N	N		1	8,9	24+	none	IA	nice burrow no sign, next to creosote
H-12	BMAGL052	N	N		1	7,9	18+	none	IA	" " "
H-12	BMAES005S1	N	N		1	11,8	24+	none	IA	" " "
H-12	BMAGL051	N	N		1	7,7	18+	none	IA	" " "
H-12	BMAAD051	N	N		1	7,7	18+	none	IA	" " "

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): JB *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/11/2009 AM survey page 1 4/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3/2	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:00AM	70	2-9 avg	none	5
End	2:25 PM	90	6-6 avg	none	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G-5	BMASD047	N	N	—	1	8x6	9	—	NS	Burrow ends.
G-5	BMAEL004	N	Y	—	1	8x7	9	—	NS	Old degraded kit fox complex, all burrows end.
G-6	BMAGL058	N	N	—	1	7x7	>18	—	IA	Suitable burrow.
G-6	BMABV013	N	N	—	1	8x10	>18	W	PA	Old BUOW whitewash, large burrow out in open. Photos 001, 002.
G-6	BMABV012	N	N	—	0	8x6	>18	—	IA	Suitable burrow.
G-6	BMARW019	N	N	—	0	6x6	>18	—	IA	Suitable burrow, cobwebs in entrance.
G-6	BMAMG016	N	N	—	2?	6x6	>18	—	IA	" No BUOW sign, inactive
G-6	BMARW015	N	N	—	2?	8x8	>18	—	IA	No BUOW sign, inactive. Burrow at base of creosote, branches blocking entrance
G-6	BMAMG014	N	N	—	2?	8x5	>18	—	IA	No BUOW sign, inactive. At base of creosote, root partially blocking entrance.
G-7	BMARW020	N	N	—	0	8x4	>18	—	IA	At base of creosote.
G-6	BKBRW004	N	N	—	2?	10x9	>18	—	IA	No BUOW sign. Inactive Large burrow at base of creosote.
G-6	BMAEL003	N	N	—	0	8x8	>18	—	IA	At base of creosote.
G-6	BMAMG048	N	N	—	0	8x8	>18	—	IA	Suitable burrow.
G-6	BMABV011	N	N	—	0	8x6	>18	—	IA	At base of creosote, cobwebs over entrance
G-7	BMAMG046	N	N	—	0	7x6	>18	—	IA	At base of creosote, curves left, veg in entrance

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3] Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):*

Project: SM **Site:** Blythe **Date:** 6/11/2009 **Surveyor:** DT **GPS Unit:** D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G-7	BKBGL038	N	N	—	0	8x8	>18	—	IA	Large burrow cut in open, curves left.
G-7	BMASC041	N	N	—	2?	8x10	>18	—	IA	At base of small ironwood tree, cobwebs in entrance. No BUOW sign, inactive
G-7	BMARW021	N	N	—	2?	8x8	>18	—	IA	Curves sharply left, may end. No BUOW sign, inactive.
G-5	BMAMG047	N	N	—	0	7x8	>18	—	IA	Suitable burrow.
G-5	BMAGL059	N	N	—	0	7x7	>18	—	IA	Burrow curves right, cobwebs over entrance.
G-5	BMASD046	N	N	—	0	7x6	>18	—	IA	Suitable burrow.
G-4	BKBSC011	N	Y	—	0	8x8	>18	—	IA	11 suitable burrows in kit fox complex.
G-4	BKBMG003	N	Y	—	0	9x6	>18	W, P	PA	10 suitable burrows in kit fox complex. Photo 003. 1 has old whitewash and a degraded pellet. Obscured old sign.
G-5	BMARW010	N	N	—	3?	—	—	W	PA	Old whitewash. Obscured old sign.
F-4	BBORC001	N	N	—	2?	—	—	none	IA	No BUOW sign observed. Inactive.
F-5	BDBGL005	N	N	—	2?	—	—	none	IA	No BUOW sign observed. Inactive.
K-12	BMAEE065	N	Y	—	0	4x5	>18	—	IA	3 suitable burrows in small complex.
K-12	BMAEE064	N	Y	—	0	5x2	4	—	NS	All burrows in complex collapsed or end.
K-12	BMAJB047	N	Y	—	0	7x7	>18	W	PA	Old whitewash at 1 suitable burrow, all others end. Obscured old sign. Photo 004.
K-12	BMAEE063	N	Y	—	0	8x8	>18	W	PA	Old white wash at 2 suitable burrows, all others collapsed or end. Obscured old whitewash. Photo 005.
K-12	BMAJB046	N	N	—	0	7x3	10	—	NS	Burrow ends.
K-12	BMAEE062	N	—							Could not find. Very near BMAJB046, probably duplicate
K-12	BMAEE061	N	Y	—	0	4x4	>18	—	IA	3 marginal burrows in RTGS complex.
K-12	BMAJB045	N	N	—	0	7x4	>18	—	IA	Burrow at base of shrub.

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy). **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Project: SM Site: Blythe Date: 6-11 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Whiptail
Zebra-tailed lizard
Round-tail ground squirrel
Turkey vulture

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/11/2009 AM survey page 2 2/25

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3/2	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start					
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-12	BMAJB043	N	N	—	0	7x5	>18	—	IA	Burrow at base of shrub.
K-12	BMAJB044	N	Y	—	0	8x8	>18	—	IA	2 suitable burrows in RTGS complex.
K-12	BMAEE067	N	Y	—	0	4x4	>18	—	IA	1 marginal burrow among many unsuitable in RTGS complex
K-12	BMAKD022	N	N	—	0	5x4	4	—	NS	Burrow ends.
K-11	BMARW035	N	N	—	0	7x5	>18	—	IA	At base of creosote, partially blocked by branches.
K-11	BMAJH022	N	N	—	0	6x5	>18	—	IA	"
K-11	BMAJH021	N	N	—	0	8x8	>18	—	IA	At base of creosote, curves right.
L-11	BMAJB003	N	N	—	0	7x6	>18	—	IA	Suitable burrow surrounded by bushes.
L-11	BMAJH057	N	N	—	0	8x7	>18	—	IA	Adjacent to dying creosote plant.
L-11	BMAEE039	N	N	—	0	8x6	>18	—	IA	Between 2 small creosote plants.
L-11	BMAEE046	N	N	—	0	8x7	>18	—	IA	At base of creosote.
L-11	BMAJB021	N	N	—	0	6x6	10	—	NS	Burrow ends.
L-12	BMAKD023	N	N	—	0	8x7	>18	—	IA	Burrow at base of creosote, curves right. Entrance partially blocked by branches and base veg.

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? **Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-11-09 4/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	C	Josh Meidav

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:00 a.m.	70	3 mph	0	5
End	1:15 p.m.	90	6	0	5

→ from JP

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA), NS	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
7:30 am E8	BKBSD007	N	N	—	4	7x9	>18	W	PA	Curves right. Kit fox scat (fresh) Older whitewash
E9	BMANS014	N	N	—	0	11x10	>14	NONE	IA	Straight & apparently long burrow.
E9	BMAEL006	N	N	—	0	9x4	10	NONE	NS	Burrow curves left & ends.
D9	BMABV016	N	N	—	0	8x8	>14	W	PA	Tall & narrow burrow. Older Burrow curves right. whitewash.
D9	BMANS016	N	N	—	0	7.5x9	15	NONE	NS	Burrow ends & curves left. Cobwebs on left side of entrance.
D9	BMABV015	N	N	—	0	12x13	>18	NONE	IA	Burrow curves right. Honeybees (to swarm) Small Bird tracks (Roadrunner?)
C9	BMASD045	N	N	—	0	18x5	>18	W, T	PA	Older whitewash. Cobwebs. small mammal tracks. Curves right. (bird tracks)
C8	BKBGL022	N	N	—	0	12x14	>14	W	PA	Burrow curves left. Fresh (wild) horse Tall & deep. Old whitewash. Scat nearby
JP 4/NS	BDEG[illegible]				0					
D9	BKBSD008	N	Y	—	0	13x18	>14	NONE	IA	3 suitable. Fresh Kit fox scat. Largest curves right. KB Horse tracks
E12	BMASD031	N	N	—	0	8x4	12	NONE	NS	Burrow ends at 12 in.
E12	BMASC022	N	Y	—	2	6x5	>12	NONE	IA	2 suitable; 1 not suitable old Burrow narrows, curves left. K fox scat
E12	BMAGL057	N	N	—	0	7x4	5	NONE	NS	Burrow ends.
E10	BMASD030	N	Y	—	?	8x6	>8	NONE	IA	1 suitable Burrow curves right. 1 NS Near intermittent jeep trail.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

a*B9 C9

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blythe Date: 6-11-19 Surveyor: JM GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Quail; Pair of Brown & white feathered birds dove like call (looked like nighthawk silhouette) Honeybees, 2 swarmed @ BMABV015.
on approach (flushed) near BKBSD008 to E9
whiptail E11 ⇒ E12
very small lizard with yellow banding on side of body ⇒ zebratail

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** June/11/09 O/WS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	08:45	90°	7 mph	0	5
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
B-6	BDBG2030	N	N	—	1	8x6	>10"	None	IA	at base of Bank.
B-6	BMAGL042	N	N	—	1	4x7	>6"	None	IA	curves right webs @ entrance
B-6	BDBGL022	N	N	—	1	9x6	>12"	None	IA	debris @ entrance
C-6	BMASD029	N	N	—	1	4x3	3"	None	IA	Burrow collapsed inside
C-6	BDBSD003	N	N	—	1	12x5	>10"	None	IA	curves right, @ base wash Bank.
C-6	BDBGL003	N	N	—	1	12x6	10"	None	IA	Shallow Burrow
C-6	BDBGL009	N	Y	—	1	6x6	>12"	W (old)	PA?	old sign.
C-6	BBBGL002									→ in same complex as above
D-7	BMAMR004	N	N	—	4	6x6	>10"	W(old)	PA	small amount of W. looks old
B-8	BMAGL040	N	N	—	1	5x4	>6"	None	IA	webs @ entrance
E-10	BMAES016 ~~BMABV014~~	N	N	—	1	5x4	8"	None	IA	under dense shrub
E-10	BMABV014	N	N	—	1	6x7	>8"	None	IA	curves to right
E-10	BMAEL005	N	N	—	1	5x5	>10"	None	IA	
E-10	BMAN5013	N	N	—	1	8x5	>10"	None	IA	KF tracks + scat.
D-10	BMAES015	N	N	—	1	5x5	>10"	None	IA	

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): RC/6/11/09 *Approved by team leader (initials, date):*

Project: SM Site:_____ Date: _____ Surveyor: _____ GPS Unit: _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D-10	BMABV009	N	N	—	1	4x7	8"	None	IA	inside collapsed
D-11	BBBAS001	N	N	—	2	6x4	>6"	W (v. old)	IA	very old W. lots of Rodent droppings @ entrance
↓	BBBDT001	N	N	—	1	7x6	>6"	W P (v. old)	IA	curves righ. v. old w. wash + Pellet
↓	BBBEG001	N	N	—	1	7x5	>12"	None	IA	
E-11	BMAGL041	N	N	—	1	6x5	6"	None	IA	webs @ entrance
E-11	BKBPB001	N	N	—	1	5x7	>6"	None	IA	curves to right, lots of old KF scat.
E-11										

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

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[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Project: SM Site: Blythe Date: 6-11-04 Surveyor: RLC GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

- Ash-throated Flycatcher
- zebra-tailed 1,2
- West. Whip

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blyth **Date:** 6/11/09 P

2/N S

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:35am	70	3 mph	0	5
End	1:15pm	90	6		

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D-7	PBBSD001	N	Y see below		3			P	PA	old pelets No WW
D-7	BDBGL012	N	Y		3			none	NS	burrow gets to small to be suitable
C-4	BMAJP006	N	N		3			WW	PA	
C-4	BMAJP007							WW	PA	
C-4	BMAGL036								—	same as BMAJP007
	BDBGL021	N	N		0	12,7	18+	none	IA	old scat but no WBO sign
E-13	BKBGL036	N	N			8,8	18+	none	IA	under creosote, photo 97
	BDBSD013	N	N		0	12,7	16+	none	IA	Cobwebs
	BMAJB070	N	N			5,3	18+	none	NS	too small

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Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-11

6/15

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2/3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:00 AM	70	3 mph	0	5
End	2:25 PM	90	7 mph	0	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
F9?	BBBRW001	N	N		?			W, ~~[illegible]~~ pr.	PA	A few cobwebs hanging, no abundantly fresh W. potential "pellets" are degraded dark stains
F9?	BBBGL001	N	N		?			W, p	PA	Cobwebs cover entrance
G9	BRBCG008	N	Y		1	8×8	>36	W	IA	2 tiny dots of old W. at easternmost burrow
G9	BMAEL008	N	N		0	10×14	>48	NONE	IA	2 decs large beetles down in entrance
G9	BMAGL060	N	N		0	10×10	>36	W	PA	very old, dry W.
G9	BRBSD026	N	N		0	11×11	>48	W, pr.	PA	very old dry W. old possible pellet > old satellite burrows
G8	BMAMG044	N	N		0	6×6	12	NONE	NS	Narrows to 2×2
G8	BMAMG045	N	N		0	10×10	>36	NONE	IA	Old KB
G8	BRBGL037	N	N		0	8×8	>24	W	PA/PA	4 old splotches of W.
G7	BMAMG012	N			?				PA	observed 5 patches of old W. 2 old pellets remain
~~G7~~	~~BMAMG013~~				~~?~~					
G7	BRBMG001	N			?					
G9	BRBSD025	N	Y		0	9×9	>24	W	PA	observed 3 dots of W, 1 old pellet remains
G9	BMAEL007	N	N		0	6×6	12	NONE	PA	Lots of old W. in complex, but on burrows except 1 are fines in EAPDS

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[3] Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): EG 6-11 *Approved by team leader (initials, ...*

Project: SM **Site:** Blythe **Date:** 6-11 **Surveyor:** EG **GPS Unit:** E

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G10	BMAES012	N	N		0	6x6	>12	NONE	IA	May end or narrow
G10	BKBSB027	N	Y		0	10x10	>36	NONE	IA	3 old KB
G10	BKBEL009	N	Y		0	6x6	36	NONE	IA	2 old KB, may end.
G10	BKBGL024	N	N		0	9x9	36	NONE	IA	May end
J12	BKBJH002	N	Y		0	8x8	>24	NONE	IA	KB complex | suitable
J11	BMAMG031	N	N		0	8x8	>24	NONE	IA	
J11	BMAEE005	N	N		0	9x9	12	NONE	NS	ENDS
J11	BMAMG032	N	N		0	7x8	>24	NONE	IA	
J11	BMAMG033	N	N		0	9x9	>24	NONE	IA	
J11	BMAEE007	N	Y		0	7x7	>24	NONE	IA	2 burrows, 1 suitable
J11	BMASH023	N	N		0	7x7	20	NONE	NS	ENDS
J11	BMARW038	N	N		0	8x8	>24	NONE	IA	May get too narrow
J11	BMAEE003	N	N		0	8x8	>30	NONE	IA	
K11	BBBEE003	N	Y		0	10x10	>36	W	PA	1 burrow has tons of old W. 1 is under bush.
K11	BMAJB002	N	N		0	9x10	>36	W	PA	Old W. - maybe scattered of BBBEE003 ~ 40 m away
L11	BMAJH049	N	N		0	9x9	12	NONE	NS	ENDS
L11	BMASH050	N	N		0	9x9	>36	W	IA	2 very old, tiny spots
L11	BMAJH071	N	N		0	8x8	20	NONE	NS	Narrows to 4x2
L11	BMAKP006	N	Y		0	10x10	>36	NONE	IA	2 burrows, 1 suitable

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by

Project: SM Site: Blyme Date: 6-4-09 Surveyor: EG GPS Unit: E

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Loggerhead shrike, zebratail,

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/11/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3		JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	17:50pm				
End	19:30				

Potential BUOW Burrows: list of burrows → from Shelly's burrows Potentially Suitable BUOW burrow +/or w/ sign

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
	BKBSC014	N			1	—	—	W	~~PA~~ → IA	old W,
	BBORW001	N			1	—	—	W	PA → IA	old W
*	BBPES001	N			1	—	—	W	PA → IA	old W
	BKBJH002	N			1	—	—	old W	IA	
	BMAGL038	N			1	—	—	old W	IA	
	BMABV016	N			1	—	—	old W	IA	
	BMAEE045	N			1	—	—	old W	IA	
	[redacted]	N			1	—	—	~~other~~	Same burrow from before	
	BBBJL002	N			1	—	—	old W.		
	BBBGL004	N			1	—	—	old W.		
	BMACG015	N			1	—	—	—	IA?	

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): JP 6/11 *Approved by team leader (initials, date):* JP

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-11-09 1/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	EG

see page 1

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	AM				
End	2:25 PM				

Cont. page 2

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L11	BBBEE004	N	N		0	10x10	>36	W	PA	Lots of W
L11	BMAJH062	N	N		0	8x6	24	NONE	NS	BNBS
L11	BMAJH051	N	Y		0	11x11	>36	W	IA	very old KB complex w/5 suitable burrows. southernmost one has a very old patch of W

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Reviewed by surveyor (initials, date): EG 6-11 *Approved by team leader (initials, date):*

Project: SM Site: Blythe

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Date: June, 12, 09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0830	73°	4	0	60
End	3:00pm	90			

Page

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fre etc.]. List photo references here. If present, # owls, pair stat age, sex, etc. and go to page 3.)
K-7	BMACG006	N	Y	—	1	8x5	~~>~~10"	none	IA *	Not active. Burrow contains no sign
	BBBJL001	N	Y	—	1	6x5	>12"	W	PA *	small amount of w @ entrance
	BMAJL008	N	N	—	1	3x3	>6"	None	IA	too small, RTGS- ~~A~~ Burrow.
	BMARW044	N	Y	—	1	5x5	>8"	None	IA	
	BMAMG023	N	Y	—	1	6x5	>10"	None	IA	Burrow curves right, RTGS colony
J-7	BMACG070	N	Y	—	1	6x5	>8"	None	IA	RTGS colony
	BMACG068	N	N	—	1	5x3	>8"	None	IA	
	BMACG071	N	N	—	1	6x5	>10"	None	IA	webs @ entrance
	BMAMG027	N	N	—	1	2x2	—	None	IA	Burrow 2x2 @ 6" too small
	BBBMR001	N	N	—	1	7x6	>10"	W (old)	PA	w @ entrance of burrow.
	BKBMG006	N	Y	—	1	8x7	>12"	None	IA	
	BMAJH016	N	N	—	1	7x6	>10"	W (v.old)	IA	in two drops of w, very old. webs @ entrance
	BMAMG028	N	N	—	1	~~4~~6x5	>6"	None	IA	B curves left. webs @ entrance
	BMAJH020	N	N	—	1	6x5	6"	None	IA	narrows to 2x2 ~~A~~ @ 6"
	BMACG077	N	N	—	1	6x5	>8"	None	IA	

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign) burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials

Project: SM Site:_____ Date: _____ Surveyor: _____ GPS Unit: _____

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-7	BMACC087	N	N	—	1	3x4	>6"	None	IA	too small
	BMAJH029	N	N	—	1	6x6	>8"	None	IA	curves left.
	BMAMR044	N	N	—	1	6x5	>10"	None	IA	webs @ entrance
	BMAMR045	N	N	—	1	5x4	>8"	None	IA	curves right
	BMACC092	N	N	—	1	9x7	>10"	None	IA	
~~H-8~~	BMRCC095	N	N	—	1	8x6	>10"	None	IA	
H-8	BKBES007	N	Y	—	1	5x4	>8"	W.P. PA*		small amount of old white wash. no fresh sign. old pellet
J-8	BMAMJ038	N	N	—	1	4x4	4"	None	IA	inside collapsed
	BMAES008	N	N	—	1	5x4	—	None	IA	Debris blocking entrance.
	BMAES009_1	N	N	—	1	6x4	>8"	None	IA	webs @ entrance
	BKBPS001	N	~~N~~ Y	—	1	5x4	>6"	None	IA	
	BMAES007_1	N	N	—	1	6x4	>6"	None	IA	webs + debris @ entrance @ base of larrea
	BMASC058	N	N	—	1	6x4	10"	None	IA	
	BKBRW012	N	~~N~~ Y	—	1	6x10	>12"	None	IA	
	BMASC057	N	N	—	1	6x5	>8"	W (old)	PA ~~IA~~	very old (w)
K-8	BMARW034	N	N	—	1	6x6	>6"	None	IA	webs @ entr.
	BKBSC015	N	Y	—	1	7x5	>8"	None	IA	
	BMARW031	N	N	—	1	4x6	6"	None	IA	
	BMARW033	N	Y	—	1	2x2	—	—	—	~~PA~~R+GS-

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[2]W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by

Project: SM **Site:** Blythe **Date:** 6-12-99 **Surveyor:** RLC **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description with identify owl pairs; reproductive

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

W. Whip
LOSH

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/12/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	8:30 AM				
End	3:00pm				

Potential BUOW Burrows: Cont.

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-8	BMARW032	N	N	—	1	6x6	78"	None	IA	webs @ entrance
	BMASC054	N	N	—	1	6x6	12"	None	IA	
	BBBRW002	N	N	—	1	6x6	>10"	W, F	PA (*)	feather in Burrow. W outside
	BMASC055	N	N	—	1	6x6	>8"	None	IA	
	BKBSC016	N	Y	—	1	7x6	>8"	None	IA	KF scat
	BKBSC014	N	Y	—	1	~~8x7~~ 7x5	>12"	None	IA	Fresh KF tracks @ entrance
	BMAJL009	N	N	—	1	5x5	>10"	None	IA	
J-6	BKBC6010	N	Y	—	1	7x5	>12	None	IA	Fresh KF tracks
	BMAMG026	N	N	—	1	5x5	>6"	None	IA	webs @ entrance
	BMAMG024	N	Y	—	1	6x5	>8"	None	IA	
	BMACG073	N	N	—	1	6x5	>8"	None	IA	
	BMACG074	N	N	—	1	6x5	>8"	None	IA	webs + debris @ entr.
	BMACG076	N	N	—	1	4x4	>8"	None	IA	too small
	BMAJH017	N	N	—	1	8x6	>10"	None	IA	
	BMACG079	N	N	—	1	10x5	>4"	None	IA	Rocks covering entrance

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[3] ...tatus: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by ...wls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):*

ject: SM Site:_____ Date: _____ Surveyor: _____ GPS Unit: _____

Potential BUOW Burrows (cont.): —

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-6	BMACG088	N	N	—	1	4x6	6"	None	IA	under dense cover.
	~~BMACG091~~	~~N~~								
J-6	BMAMG030	N	N	—	1	6x3	6"	None	IA	~~collapsed burrow~~ Backfilled
	BMAJH018	N	N	—	1	12x6	>8"	None	IA	covered by dense veg.
	BMAMG029	N	Y	—	1	5x4	>6"	NONE	PA→~~IA~~	no sign. ~~has been backfilled~~
	BMACG075	N	N	—	1	6x5	>6"	None	IA	

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BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/12/09 8/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:53am	74	0-5mph	36%	50
End					

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-7	BBBEE002	N	Y		0	9,8	12	none	NS	burrow ends @ 12"
K-7	BMAJH034	N	N		0	8,9	12+	none	IA	very old scat
K-7	BMAEE019	N	N		0	7,6	12	none	NS	ends @ 12"
K-7	BMAJH036	N	N		0	8,8	12	none	IA	under creosote
K-7	BMAJH035	N	N		0	8,6	12+	none	IA	good burrow, no sign
K-7	BMAEE029	N	N		0	7,12	18+	none	IA	old KF scat
K-7	BMASC047	N	N		0	↑	↑	↑	↑	same as above
K-7	BMAJL012	N	N		0		10	none	NS	ends @ 10"
L-7	BMAJH040	N	N		0	8,7	12+	none	IA	under creosote, branches block entrance
K-7	BMAJH037	N	N		0	9,8	18+	none	IA	under creosote, nice burrow
L-7	BKBES001	N	Y(2)		0	9,12	18+	none	IA	next to creosote, old KF scat
L-7	BMAEE020	N	N		0	8,6	18+	none	IA	" "
L-7	BMAEE023	N	Y(2)		0	7,4	12+	none	IA	burrow narrows near 12" mark
L-7	BMARW051	N	N		0	7,6	18+	none	IA	twigs in front under creosote
L-7	BMAJH074	N			—	—	8	none	NS	ends @ 8"

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[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM **Site:** Blythe **Date:** 6/12/09 **Surveyor:** J-P **GPS Unit:** B

Potential BUOW Burrows (cont.): 11S 0710463728140

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-7	BMAJL015	N	N		0	—	10	none	NS	narrows @ 10"
	BMAEE024	N	N		0	9,7	18+	none	IA	nice burrow, next to creosote
	BMAJH041	N	Y(1)		0	7,5	12+	none	IA	complex but only 1 suitable
	BMARW054	N	N		0	6,4	12+	none	IA	cobwebs ½ filled in
	BMAES0021	N	N		0	6,7	12+	none	IA	vertical burrow, next to creosote
	BMAES005	N	N		0	—	18	none	NS	ends @ 18"
	BMARW053	N	N		0	7,5	12+	none	IA	twigs in front, partialy filled in
	BMAES0031	N	N		+	—	10	none	NS	ends @ 10" not S
	BMAES001.1	N	N			—	6	none	NS	ends @ 6"
K-7	BMAJH031	N	Y(2)		0	6,5	12+	none	IA	small GS complex (2) suitable
	BMAEE018	N	Y(1)		0	7,4	12+	none	IA	complex (1) suitable
	BMAJH030	N	N		0	7,6	12+	none	IA	next to creosote
	BMAJH010	N	N		0	6,6	18+	none	IA	nice burrow, but no sign
	~~BMARW044~~	~~N~~	~~N~~		~~0~~	~~7,6~~	~~18+~~	~~none~~	~~IA~~	~~" " "~~
	BBBDL001	N	N		0	7,7	21	none	IA	" " "
	BMAJ1009	N	N		1	8,7	12+	none	NS	too small
	BLEGMB[illegible]	N	Y(1)		0	8,6	18	[illegible]	PA	1 suitable w/ 1 sgt nest
										extra [illegible]

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BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/12/09 continued 4/25

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:35am	79	4	P	60
End	2:35pm	89	4		

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-6	BBBJL002	N	Y		0	6,5	10+	W	PA	small amount of old W
	BKBEE004	N	N		0	6,6	12+	none	IA	
	BMAJL011	N	N		0	7,5	12+	none	IA	next to creosote
	BMARW047	N	N		0	6,5	12+	none	IA	cobwebs
	BKBEE003	N	N		0	6,8	12+	none	IA	cobess
	BKBJH004	N	Y		0	7,10	18+	none	IA	old KF scat
	BBBJH001	N	Y		0	8,6	18+	P	PA	pellet old tortoise
K-6	BBBEE001	N	N		0	6,4	12+	none	IA	
K-6	BMAJH032	N	N		0	7,6	12+	none	IA	facing creosote
K-6	BMARW049	N	N				10	none	NS	collapsed vertical burrow
L-6	BMAJH039	N	N		0	7,5	12+	none	IA	cob webs
K-6	BMAJH033	N	N		0	9,4	12+	none	IA	turns to right
L-6	BMAJH038	N	N		0	8,6	18+	none	IA	cobwebs
L-6	BMARW052	N	N		0	8,7	18+	none	IA	cobwebs, nice burrow
L-6	BDBRW004	N	N		0	9,6	18+	none	IA	dirt clod in front of burrow

***IDENT Code:** the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM **Site:** Blythe **Date:** 6/12/09 **Surveyor:** JP **GPS Unit:** B

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-6	BMAES004	N	N		0	8,6	18+	none	IA	under creosote
L-6	BMAJL016	N	N		0	7,5	18+	none	IA	cobwebs
L-6	BMAJL014	N	N		0	8,6	12+	none	IA	under creosote
L-6	BMARW055	N	N		~~0~~	~~3,3~~	~~12+~~	none	NS	too small
L-5	BMAJL013	N	N		0	3,3	12+	none	NS	too small
L-5	BMACG086	N	N		0	7,6	18+	none	IA	nice burrow but no sign
L-5	BMACG085	N	N		0	6,5	18+	none	IA	old scat, cobwebs
L-5	BMAEE022	N	Y		0	5,4	12+	none	IA	complex 2 suitable
L-6	BMARW050	N	N		0	6,4	12+	none	IA	turns to right
L-5	BMACG084	N	N		0	4,4	12+	none	IA	branches in front, marginal
L-5	BMAEE021	N	Y		0	4,4	12+	none	IA	complex of sm burrows, marginal
K-6	BMARW048	N	N		0	7,6	12+	none	IA	nice burrow
K-6	BMARW046	N	N		0	7,7	18+	none	IA	nice burrow
K-6	BMARW045	N	N		0	8,7	18+	none	IA	" "
K-6	BMAJH029	N	Y		0	8,6	18+	none	IA	" "
K-6	BMACG065	N	Y		0	3,3	12+	none	NS	GS burrows too small
K-6	BMAMR040	N	N		0	8,7	18+	none	IA	good burrow
K-6	BMAMR042	N	N		0	7,6	18+	none	IA	cobwebs, good burrow
K-6	BMAMR041-1	Repeat				Remove from data repeated point				

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Project: SM **Site:** Blythe **Date:** 6-12-99 **Surveyor:** JP **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

BBCJPOOL 0714319 Photo 98
3729168

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/12/09 Cont. V/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:35am	73	4	0	60
End	2:35pm	90	4	0	60

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-6	BMACG067	N	N		0	7,6	12+	P old	IA	cobwebs, very old pellet
K-6	BMACG063	N	N		0	—	10	none	NS	narrows 18" then ends
K-6	BMACG064	N	N		0	6,7	12+	none	IA	cobwebs
K-6	BKBMR002	N	N		0	—			check	with BKBCG009

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** June 12, 2009

23/w5 Earl: UXO 909-787-6350

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	C	Josh Meidav

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:35	74	4 mph	0	50
End	2:55	90	4	0	50

→ JP

UNKI: Unknown 1: 1150710746 3728140 → near BMASC049 Picture taken (Pistol-fuse) to BO2 ← 2in. surface (metal)

Shell BO1: 1150710735; 3728112 (shell/skeleton)

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K8	BMASC049	N	N	—	0	7x6	>8	NONE	IA	
L8	BMAJB005	N	N	—	0	11x7	>13	NONE	IA	Burrow curves left. KB. Old KF scat.
L8	BMAJB012	N	N	—	0	7x10	12	NONE	NS	Burrow curves right. KB. Old KF scat.
L8	BMAJB009	N	N	—	0	6x8	13	NONE	NS	Burrow ends.
L8	BMAJH054	N	N	—	0	12x10	11	NONE	NS	Burrow ends. Old KB. Old KF scat.
L8	BMAJH064	N	N	—	0	8x10	>14	NONE	IA	Burrow ends.
L8	BMAJB017	N	N	—	0	8x8	14	NONE	NS	Burrow curves right. J. rabbit pellets near.
L8	BMAEE037	N	N	—	0	10x7	7	NONE	NS	Burrow curves right & ends.
L8	BMAJH066	N	N	—	0	12x4	5	NONE	NS	Burrow curves left & ends.
L8	BMAEE040	N	N	—	0	8x7	14	NONE	NS	Burrow ends, filled in with sand
L8	BMAJB024	N	N	—	0	8x4	6	NONE	NS	Burrow ends, cobwebs.
L8	BMAJH070	N	N	—	0	7x4	5	NONE	NS	Burrow ends.
L8	BMAJH081	N	N	—	0	11.5x10.5	18	NONE	NS	Burrow ends. Filled in @ entrance
L8	BMAJH080	N	N	—	0	10x9	17	NONE	NS	Burrow ends. Caved in @ entrance.
L8	BMAEE044	N		—	0	5x7	4	NONE	NS	Burrow ends. Old KF scat. KB (old). Burrow ends, entrance eroded.

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Reviewed by surveyor (initials, date): JM 6-13-09 *Approved by team leader (initials, date):*

Project: SM **Site:** Blyth **Date:** 6-12-09 **Surveyor:** Josh Meidav **GPS Unit:** C

Potential BUOW Burrows (cont.): Mourning dove call (?) doe call @ BMAKD007 jackrabbit & clucking (woodpecker gentle) Lesser nighthawk @ BMAJH077 → BMAJH079

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L8	BMAKD007	N	N	—	0	7x4.	4	NONE	NS	Burrow ends.
L8	BMAJH069	N	N	—	0	8x8	>16	NONE	IA	Burrow curves left. KF scat (old). KB old
L8	BMAJH076	N	Y	—	0	10x8	>16	NONE	IA	Burrow curves right. 1 suitable. 1 NS. Old KF scat.
L8	BMAJH068	N	N	—	0	18x15	7	NONE	NS	Burrow ends.
L8	BMAJH065	N	N	—	0	8x6	>15	NONE	IA	Burrow curves right. KF & CY scat (old).
L8	BMAJB026	N	N	—	0	5x5	5	W	NS	Burrow ends @ 5 in. Very old whitewash
L8	BMAJH077	N	N	—	0	8x4	4	NONE	NS	Burrow ends @ 4 inches
L8	BMAJH079	N	N	—	0	8x9	>17	NONE	IA	Burrow curves left. Old KF scat. KB.
L8	BKBCG001	N	Y	—	0	11x8	>13	NONE	IA	Burrow curves right. 1 suitable 1 NS
L8	BMAJH042	N	N	—	0	8x7	>12	NONE	IA	Burrow curves right. cottontail tracks
L8	BMAEE043	N	N	—	0	16x13	11	NONE	NS	Burrow ends. Old KF scat.
L8	BMAJB027	N	N	—	0	5x8	2	NONE	NS	Burrow ends @ 2 in. top collapsed.
L8	BKBD002	N	Y	—	0	7x7	13	NONE	NS	3 NS Burrow ends @ 13 in. CY scat.
L8	BMAJH067	N	N	—	0	11x4	4	NONE	NS	Burrow ends @ 4 inches.
L8	BMAJH053	N	N	—	0	6x4	3	NONE	NS	Burrow ends @ 3 inches.
L8	BKBAD001	N	N	—	0	11x9	>18	NONE	IA	Burrow curves left. Appears to be KB, though KF scat.
L8	BMAJB004	N	N	—	0	9x5	4	NONE	NS	Burrow ends at 4 inches. Filled in.
K8	BMAEED28	N	N	—	0	4x3	12	NONE	NS	Burrow is too small & ends. Part of GS complex.
K8	BMAJH045	N	N	—	0	5x4	>12	NONE	IA	Burrow curves left. Cobwebs.

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BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** June 12, 2009

2/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	C	JM

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:50 a.m.	74	4	0	50
End	2:35 pm	90	4	0	5

-JP

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K8	BMASC050	N.	N	—	1	10x5	>11	W	PA	Burrow curves left. Old whitewash
K8	BKBRW008	N	N	—	0	6x4	>10	NONE	IA	Burrow curves left
K8	BMASC053	N	N	—	0	4x5	10	NONE	NS	Burrow ends.
K8	BKBSC013	N	N	—	0	5x7	>13	NONE	NS	Burrow curves right. Mixed in w/ GS complex
K8	BKBRW007	N	Y	—	0	12x5	>11	NONE	IA	9 suitable, 1 Not suitable, largest burrow curves left. KB complex.
L4	BKBMR004	N	Y 13:S 5:N	—	0	24x32	>24	NONE	IA	Old & new KF scat. KFox scat → old. Very large KB complex. Grades w/ GS complex
K5	BMAMG021	N	N	—	0	14x12	>14	NONE	IA	KB new & old → KF scat
K5	BMAMG022	N	N	—	0	7x5	>12	NONE	IA	Burrow curves right. (rodent fur & bones)
K5	BMALG023	N	N	—	3	8x12	>18	W	IA	Burrow curves left; cobwebs across. Old whitewash
J5	BMAB058			—	0					Burrow narrows & curves left. Cobwebs
J5	BMAB059			—	0					

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): JM, 6-13-09 *Approved by team*

Project: SM Site: Blythe Date: 6-12-09 Surveyor: JM GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Whiptail(s) on way to BMASC050

Comments/Notes:

Project: SM Site: Blythe Date: 6-12-09 Surveyor: JM GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

jackrabbit, lesser nighthawk, mourning dove call?

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-12-09 9/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:40 AM	74	4	0	50
End	2:35 PM	89	4	0	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-10	BMAJH025	N	N		0	8×8	24	NONE	NS	ENPS
K-10	BMAJH024	N	N		0	9×9	30	NONE	NS	Narrows to ~ 3×2
K-10	BKBJH003	N	Y		0	8×6	>24	NONE	IA	3 suitable burrows. Pelle of shed reptile skin at NE one
K10	BMAEE006	N	N		0	7×7	>24	NONE	IA	
K10	BKBRW013	N	Y		0	10×10	>36	NONE	IA	2 suitable burrows
J10	BMAMG034	N	N		0	8×6	>24	NONE	IA	
J11	BMAJH028	N	N		0	8×6	24	NONE	NS	Gets too narrow
J11	BMACG080	N	N		0	8×8	>24	NONE	IA	
J11	BBORW001	N	N		0	—	—	NONE	NS	W. and P. under snag - no Burow-type pellets seen - roost tree for other birds
J11	BKBCG011	N	Y		0	8×8	>20	NONE	IA	2 suitable. May be bees nest.
J11	BMARW041	N	N		0	10×10	30	NONE	NS	Narrows to 2×2
J11	BMAJL007	N	N		0	8×8	>24	NONE	IA	
J11	BMAEE016	N	N		0	10×10	>36	NONE	IA	
J11	BMAEE015	N	N		0	8×4	>24	NONE	IA	
J11	BMAEE012	N	N		0	6×6	>24	NONE	IA	

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM **Site:** Blythe **Date:** 6-12-09 **Surveyor:** EG **GPS Unit:** E

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J11	BMACG081	N	N		0	8x6	>24	NONE	IA	
J11	BKBOL001	N	Y		0	9x9	>24	W.	IA	9 suitable burrows 2 of 4 spots of W.
J11	BMARW074	N	Y		0	4x4	>12	NONE	IA	RTGS colony
J11	BMAJL001	N	N		0	8x6	>24	NONE	IA	
J11	BMAEE010	N	N		0	10x6	>24	NONE	IA	
J11	BMARW040	N	N		0	10x10	24	NONE	NS	ENDS
J11	BMAEE011	N	N		0	12x10	>24	NONE	IA	
K9	BMARW029	N	N		0	10x10	>36	NONE	IA	
K9	BMASC056	N	N		0	9x9	24	NONE	NS	ENDS
J9	BKBRW010	N	Y		0	10x10	>36	NONE	IA	4 suitable burrows
J9	BKBRW011	N	Y		0	11x9	>36	NONE	IA	2 suitable
J10	BMAEE009	N	N		0	10x10	24	NONE	IA	Narrows to 6x3
J10	BMAEE008	N	N		0	8x8	24	NONE	NS	ENDS
J10	BMAJH026	N	N		0	9x9	24	NONE	NS	ENDS
J10	BKBEE004	N	N		0	10x10	>36	NONE	IA	
J10	BMAJH027	N	N		0	12x12	>36	W.	PA	W. is very old + worn small patches
J10	BMACG079	N	Y		0	8x8	>12	NONE	IA	4 suitable
J10	BBBCG001	N	Y		0	9x7	>24	W.	PA	old RB. 3 suitable burrows. W. is old and degraded
J10	BMAJL002	N	Y		0	8x8	>24	NONE	IA	3 suitable, 2 RTGS

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-12-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:40 Am	73	4 mph	0	50
End	2:35 Pm	99			60

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J10	BMACG083	N	N		0	7x7	>24	NONE	IA	
J10	BMAJL003	N	N		0	8x8	>24	NONE	IA	Burrow is 7m NE of point Cobwebs in entrance
J10	BMACG082	N			0	9x9	>24	NONE	IA	
J10	BMAEE013	N	N		0	10x10	>20	NONE	IA	
J10	BMAPS006	N	N		0	8x11	>24	NONE	IA	
J10	BMAMG037	N	N		0	8x8	>24	NONE	IA	

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

20/N4

Project: SM **Site:** Blythe **Date:** 6/12/2009 AM survey page 1

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:40 AM	77°F	4-7 avg	none	60
End	2:35PM	89°F	6-7 avg	none	75

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-10	BMARW037	N	N	—	0	8x8	>18	—	IA	Beneath creasote, entrance partially blocked by branches and roots
K-10	BMAEE004	N	N	—	0	8x9	14	—	NS	At base of creosote, burrow ends.
K-10	BMARW036	N	N	—	0	10x14	>18	—	IA	Large burrow, drops down vertically ~12" in.
K-10	BMAEE002	N	N	—	0	6x6	12	—	NS	At base of creosote, burrow ends.
K-10	BKBMG007	N	Y	—	0	8x8	>18	—	IA	Old, degraded kit fox complex. 1 suitable burrow, others collapsed or end.
K-10	BMAEE001	N	N	—	0	7x6	>18	W	PA	4 splotches of very old whitewash. Not active. Photo 001.
K-10	BMAEE027	N	N	—	0	7x7	10	—	NS	At base of creasote, burrow ends.
L-10	BMAJB006	N	Y	—	0	8x10	>18	—	IA	2 large, suitable burrows ~1.5 m apart.
L-10	BMAEE033	N	N	—	0	7x7	>18	—	IA	Suitable burrow.
L-10	BMAJH056	N	N	—	0	8x8	10	—	NS	Burrow ends.
L-10	BMAEE036	N	N	—	0	7x7	12	—	NS	Burrow ends.
L-10	BMAJH061	N	N	—	0	7x12	14	—	NS	Badger foraging burrow at base of creasote, ends.
L-10	BMAJB010	N	N	—	0	8x8	>18	—	IA	Burrow turns sharply to left.
L-10	BMAEE042	N	N	—	0	8x9	12	—	NS	Burrow ends.
L-10	BMAJB025	N	N	—	0	8x6	12	—	NS	Burrow ends.

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM **Site:** Blythe **Date:** 6/12/2009 **Surveyor:** DT **GPS Unit:** D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-10	BMAJB022	N	N	—	0	8x9	>18	—	IA	At base of small creosote.
L-10	BMAJB020	N	N	—	0	7x9	14	—	NS	Badger foraging burrow at base of creosote, ends.
L-10	BMAJH060	N	N	—	0	7x6	6	—	NS	Burrow ends.
L-10	BMAJB014	N	N	—	0	7x7	>18	—	NS	Badger foraging burrow, narrows to 2"x2" after 8" in.
L-10	BMAJH052	N	Y	—	0	5x5	8	—	NS	2 burrows ~ 2 feet apart, both end.
L-10	BMAEE032	N	N	—	0	6x4	6	—	NS	At base of creosote, ends.
L-10	BMAJH048	N	N	—	0	8x8	>18	—	IA	Large, nice burrow adjacent to creosote.
K-10	BMAEE030	N	N	—	0	9x9	>18	—	IA	Large, nice burrow at base of creosote.
L-10	BMAJH046	N	Y	—	0	9x9	>18	—	IA	2 large burrows ~4 feet apart.
K-10	BMAJH043	N	Y	—	0	7x6	8	—	NS	2 burrows in base of creosote, both end.
L-10	BMAEE031	N	N	—	0	10x8	10	—	NS	Burrow ends.
L-9	BMAJH059	N	N	—	0	7x4	8	—	NS	At base of creosote, burrow ends.
L-10	BMAJB015	N	Y	—	0	7x6	14	—	NS	2 burrows at base of creosote, both end.
L-9	BMAKD005	N	N	—	0	7x5	>18	—	IA	Suitable burrow.
L-10	BMAJB019	N	N	—	0	8x6	8	—	NS	At base of creosote, burrow ends.
L-10	BMAKD009	N	N	—	0	5x7	8	—	NS	Badger foraging burrow at base of creosote, ends.
L-10	BMAJH072	N	N	—	0	7x7	8	—	NS	" " "
L-10	BMAJB029	N	N	—	0	8x8	>18	—	IA	Suitable burrow adjacent to small palo verde.
L-10	BKBAD004									Duplicate of BMAJB029.

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/12/2009 AM survey page 3 4/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	7:40AM	77°F	4.7 avg	none	60
End	2:35PM	89°F	6.7 avg	none	75

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-9	BMAJH063	N	N	—	0	6x6	18	—	NS	Badger foraging Burrow at base of creosote, ends.
L-9	BMAJB013	N	N	—	0	5x3	>18	—	IA	Burrow may narrow and end.
L-9	BMAJH055	N	N	—	0	10x12	18	—	NS	Badger foraging burrow at base of creosote, ends.
L-9	BMAJH058	N	N	—	0	7x6	6	—	NS	At base of creosote, ends.
L-9	BMAJB011	N	N	—	0	6x4	6	—	NS	At base of creosote, ends.

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blythe Date: 6-12-09 Surveyor: DT GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Whiptail
Common side-blotched lizard
Round-tail ground squirrel
Black-tailed jackrabbit
Turkey vulture
Loggerhead shrike
Lesser nighthawk
Zebra-tail lizard

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/12/2009 AM survey page 2 18/25

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
2	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start					
End					

See page 1

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-10	BMAJH083	N	N	—	0	12x14	>18	—	NS	Large burrow with cobwebs over entrance, completely enveloped by fallen ironwood branches. Photo 002.
L-10	BMAEE045	N	Y	—	0	7x7	>18	—	IA	6 burrows total, only 2 are suitable. Others end. Appears to be a cluster of badger foraging burrows.
L-9	BMAJH073	N	N	—	0	7x6	6	—	NS	Burrow ends.
L-9	BMAJH074	N	N	—	0	7x9	>18	—	IA	At base of creosote, entrance partially blocked by branches.
K-9	BMAJB001	N	N	—	0	6x4	8	—	NS	At base of creosote, ends.
K-9	BMASC048	N	N	—	0	6x6	16	—	NS	Burrow ends.
K-9	BBFSC001	—	—	—	—	—	—	—	—	Listed as BUOW feather. Could not find any feathers at marked point.
K-9	BMARW027	N	Y	—	0	7x7	12	—	NS	2 badger foraging burrows ~ 1ft. apart, both end.
K-9	BMASC051	N	—	—	2?	—	—	W	PA	Some semi-old whitewash at burrow. Small sticks in entrance as well. Obscured old sign. Photo 003.
K-9	BMASC052	N	N	—	0	7x7	>18	—	IA	Suitable burrow.
K-9	BMARW028	N	N	—	0	6x5	10	—	NS	Badger foraging burrow, ends.
K-9	BMARW030	N	N	—	0	6x6	>18	—	IA	Cobwebs over entrance.
K-9	BKBRW009	N	N	—	0	6x6	>18	W	PA	3 splotches of old whitewash, obscured. Photo 004.
K-9	BMASC046	N	N	—	0	7x8	12	—	NS	Badger foraging burrow at base of creosote, ends.
K-9	BMAJH044	N	N	—	0	8x14	12	—	NS	"

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM **Site:** Blythe **Date:** 6/12/2009 **Surveyor:** DT **GPS Unit:** D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
L-9	BMAJH047	N	N	—	0	6x5	>18	—	IA	Cobwebs over entrance.
L-9	BMAJB008	N	N	—	0	7x8	>18	—	IA	In base of creosote, cobwebs over entrance.
L-9	BMAJB007	N	N	—	0	6x6	10	—	NS	Burrow ends.
L-9	BDBJH001	N	N	—	0	8x5	>18	—	IA	Suitable burrow.
L-9	BMAEE035	N	N	—	0	7x7	8	—	NS	Burrow ends.
L-9	BMAEE034	N	N	—	0	7x7	>18	—	IA	Large, nice burrow adjacent to creosote.
L-9	BMAJB016	N	N	—	0	6x5	8	—	NS	Badger foraging burrow in base of creosote, ends.
L-9	BMAKD002	N	N	—	0	9x6	>18	—	NS	Burrow completely enclosed under palo verde branches.
L-9	BMAEE058	N	N	—	0	7x5	>18	—	IA	Suitable burrow.
L-9	BMAJB018	N	N	—	0	6x6	6	—	NS	Badger foraging burrow in base of creosote, ends.
L-9	BMAKD004	N	N	—	0	7x6	>18	—	IA	At base of creosote
L-9	BMAKD001	N	N	—	0	8x8	>18	—	IA	Burrow curves left.
L-9	BMAEE041	N	N	—	0	7x6	4	—	NS	Burrow ends.
L-9	BMAKD008	N	Y	—	0	12x12	>18	—	IA	Is suitable burrow in complex of 3 next to palo verde.
L-9	BMAJB028	N	N	—	0	10x6	6	—	NS	Burrow ends
L-9	BMAJH082	N	N	—	0	6x5	10	—	NS	Badger foraging burrow, ends.
L-9	BMAJH075	N	N	—	0	6x4	>18	—	NS	Burrow at base of ironwood tree, completely enclosed by branches.
L-9	BMAJB023	N	N	—	0	6x5	>18	—	IA	Adjacent to creosote.
L-9	BMAKD003	N	N	—	0	8x8	12	—	NS	Burrow under palo verde tree, ends 12" in.

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[2] **BUOW or Sign: O**-Owl, **W**-Whitewash, **P**-Pellets, **T**- BUOW Tracks, **B**- Bones (from degraded pellets), **F**-Feathers, **Pr**-prey remains, **Ef**-Eggshell fragments, **St**-Sticks, **NONE**-no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-13

1/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:10 AM	74°	2.2 mph	0	90
End	8:00 AM	78°	4		5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
~~K13~~	BKBKD008	N			1			W.	~~PA~~ IA	Splashes of old W. No owl seen
K13	BMAEE053	N			1			W.	IA	small old dot of W. No owl seen
J13	BMAEE093	N			1			W	IA	very old W. No owl present
J12	BMAJB066	N			1			NONE	IA	No new W old was observed 6-13 No owl seen.
H11	BBBCC002	N			2			W, P	IA	Lots of old W + ~~pellet~~ old pellet No fresh sign seen, no owl
H10	BMARW042	N	N		1	7×7	>24	NONE	IA	
H10	BMARW043	N	N		1	12×12	>36	NONE	IA	Large
H10	BMAEE017	N	N		1	8×8	>24	NONE	IA	
H10	BMAJL006	N	N		1	8×8	>24	NONE	IA	
J10	BMAJL005	N	N		1	9×9	>36	NONE	IA	
J10	BMAEE014	N	Y		1	8×6	>20	NONE	IA	4 suitable burrows,
J10	BKBRW014	N	Y		1	9×9	>24	NONE	IA	4 suitable
J9	BMAPJ007	N	N		1	6×7	20	NONE	NS	ENDS

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[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): EG 6-13 *Approved by team leader (initials, date):*

Project: SM Site: Blythe Date: 6-13-09 Surveyor: EG GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 identify owl pairs; reproductive statu

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

Whiptail, loggerhead shrike, sidewinder

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/13/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

AM	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	05:30	74°	2 mph	0	40
End	07:30	78°	4		5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
J-5	BMACG072	N	N	—	1	6x8	>10"	none	IA	
J-5	BMAPB004	N	Y	—	1	6x4	>6"	None	IA	
H-6	BMACG089	N	N	—	1	6x6	>8"	none	IA	
	BMACG090	N	N	—	1	6x5	>10"	none	IA	
	BMAMR046	N	N	—	1	6x8	>12"	None	IA	fresh KF tracks
	BMACG094	N	N	—	1	6x5	~~>~~6"	None	IA	webs and debris @ entrance
	BKBCG014	N	~~N~~ Y	—	1	7x9	>10"	None	IA	lots of fresh KF tracks.
	BMACG093	N	N	—	1	6x5	>6"	None	IA	
	BMAMR047	N	N	—	1	5x4	>10"	None	IA	
J-6	BMAMG029	N	Y	—	2	5x5	>8"	None	PA+IA	no sign.
J-7	BMAJH016	N	N	—	2	5x7	>10"	None	PA+IA	webs @ entrance
J-7	BBBMR001	N	N	—	2	7x5	>10"	W	PA	W could be old.
J-6	BKBCG010	N	Y	—	2	7x10	>12"	None	PA+IA	fresh KF tracks @ entrance

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blythe Date: 6-13-09 Surveyor: RLC GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

LOSH
Black-tailed Jackrabbit.

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

4/NS

Project: SM **Site:** Blythe **Date:** 6/13/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:10 AM	74°	2-2 avg	none	90
End	8:00 AM	78°	4-1 avg	none	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K-13	BKBKD009	N	—	—	~~2~~ 1	—	—	—	IA	No new BUOW sign. Inactive.
K-12	BMAKD020	N	—	—	~~2~~ 1	—	—	W	IA	Whitewash old, no new sign.
K-12	BMAEE063	N	—	—	~~2~~ 1	—	—	—	IA	No new BUOW sign.
K-12	BMAJB047	N	—	—	1	—	—	—	IA	No new BUOW sign.
L-11	BBBEE004	N	—	—	1	—	—	W	PA	Lots of whitewash. Obscured sign.
K-11	BMAJB002	N	—	—	1	—	—	W	PA	Some whitewash present, obscured sign
K-11	BBBEE003	N	—	—	1	—	—	W	PA	Lots of whitewash. Obscured sign.
K-10	BMAEE001	N	—	—	1	—	—	—	IA	No new BUOW sign.
J-9	BMASC058	N	N	—	1	7x8	14	—	NS	Burrow ends.
J-9	BMASC059	N	N	—	1	6x8	>18	—	IA	Burrow between 2 small creosote plants.
J-9	BMAES006 1	N	N	—	1	6x6	12	—	NS	Burrow ends.
J-9	BMAES010 1	N	N	—	1	7x7	>18	—	IA	Large, nice burrow.
J-9	BMAES011	N	N	—	1	7x5	>18	—	IA	Suitable burrow.
J-9	BMAES012	N	N	—	1	7x5	10	—	NS	Burrow ends.
J-9	BMAES013	N	N	—	1	7x8	>18	—	IA	Large, suitable burrow.

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[1] Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3] Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy).

Reviewed by surveyor (initials, date): DT 6/13 *Approved by team leader (initials, date):*

Project: SM Site: Blythe Date: 4/13/2009 Surveyor: D GPS Unit: D

Potential BUOW Burrows (cont.):

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
H-9	BMAMG039	N	N	—	1	6x6	>18	—	IA	Suitable burrow
H-9	BMACG096	N	N	—	1	5x4	12	—	NS	Burrow under brush ends.
H-9	BMANS001	N	N	—	1	6x6	>18	—	IA	Burrow envelopped by brush.

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/13/09 pm 3/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Hum/Precip.	Cloud Cover (%)
Start	5:45 pm	89	4 mph	15 / 0	30
End	8:15 pm	84	5 pm	12 / 0	50

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
H-21	BDBGL023	N	N		1	6,7	12+	none	IA	no sign
H-20	BMAGL043	N	N		1	6,6	18+	none	IA	single burrow no sign
H-20	BKGL023	N	Y		1	7,9	18+	none	IA	KF burrows
G-19	BMAES002	N	N		1	—	—	none	NS	collapsed
H-19	BMAGL044	N	N		1	7,8	12+	none	NS	directly under iron wood tree
H-19	BMAES003	N	N		1	7,7	18+	none	IA	nice burrow but no sign
H-19	BMAES001	N	N		1	6,5	12+	none	IA	OK burrow
G-12	BBBAD001	N	N		1	7,6	12+	W	NS	W but under PaloVerde in wash
										W likely from other bird species
										burrow under thick veg
										not suitable for WBO

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-13-09 K6, K7, K8, J8

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	Josh Meidav

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)	
Start	5:05 a.m.	74°	2.2 mph	0	10	- JP
End	8:00	78°	4.1	0	5	- DT

whiptail yesterday

Probed 5:45 a.m.

Potential BUOW Burrows:

Whiptail spotted black/white above dorsal; tail 1.5x body length

Smoothed over W & Apron.

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K6	BKBJH004	N	Y 4:S 1:NS	—	1	12x16	>12	W (older) T	IA No new sign	No present BUOW. 1 Whitewash in front of Lots of KF scat. small burrow. KF nearby
K6	BMAMA041	N	Y 2:S	—	2	5x5	>12	W (old)	IA No new sign	No present BUOW. Burrow curves left older Whitewash. No new sign.
K6	BKBCG009	N	Y 4:S 3:NS	—	2	5x4	>12	W (old)	IA No new sign	No new sign. Old Whitewash. Old KF scat. Intergrades w/ GS complex
K6	BKBMG001	N	Y 4:S	—	2	9x5	>24	W (old)	IA No new sign	Fresh KF scat. Burrows Intergrades w/ GS burrows. curves left
K7	BMAJL010	N	N	—	1	7x9	16	NONE	IA	Cobwebs. Burrow ends no W
K7	BBBJL001	N	Y 3:S 1:NS	—	1	8x4	>15	W	PA Recent W	Recent Whitewash. Burrow curves right. Ends w/GS complex
K8	BMASC050	N	N	—	2	9x5	>10	W	IA No new sign	Older W. Burrow curves left. Grades w/ GS complex
K8	BBBRW002	N	N	—	2	9x7	>18	W recent	PA	Burrow curves right. Smoothed over. Lots of Whitewash.
7:30 am J8	BMASC057	N	N	—	2	7x6	>12	W (old)	IA No new sign	Burrow curves right. Moderate amount No recent whitewash. of older whitewash

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Reviewed by surveyor (initials, date): JM, 6-13-09 *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Bluff **Date:** 6-13-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	JM

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:50 pm	90	9	0	20
End	7:20 pm				

-JP

Zebra tail lizard (very fast) bat

Pair raptors: 1 larger lighter wing bird of prey

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
G4	BKBMG003	N	Y S:6 NS:2	—	2	8x12	>13	NONE no new	IA	No fresh tracks or whitewash old KF scat
G4	BMAJP006	← Different Map (west of G-42.97km)								
G4	BKBSC011	N	Y S:13 NS:3	—	2	10x12	>18	W (old)	IA	No fresh signs. Old KF scat. KB
G5	BMABW010	N	N	—	2	10x4	>12	NONE	IA	No fresh signs. Burrow curves left. Grades w/ G5 complex
G6	BMABW013	N	Y 1:S 1:NS	—	2	12x13	>13	NONE	IA	No fresh signs. old whitewash. Burrow curves right.
G6	BKBBW004	N	N	—	2	14x10	>16	NONE no new signs	IA	No fresh signs of whitewash. 1 small old splotch
G6	BMAMG016	N	Y 1:S 1:NS	—	2	6x4	>8	NONE	IA	Burrow curves right. No signs.
G6	BMABW015	N	N	—	2	8x5	>14	NONE	IA	Burrow curves right. No fresh signs or old.
G6	BMAMG014	N	N	—	2	7x4	>13	NONE	IA	Burrow curves right. No signs.

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Reviewed by surveyor (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/13/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	DT

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:15 PM	88°F	9.6 avg	none	50
End	8:30 PM	85°F	7.2 avg	none	90

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
D-9	BMABV016	—	—	—	1	—	—	none	IA	Small amount of whitewash, burrow at base of small ironwood, whitewash likely from other birds.
C-8	BKBGL022	—	—	—	1	—	—	W	IA	2 very old splotches of whitewash, inactive.
C-8	BDBGL022	—	—	—	?	—	—	W, P	IA	Lots of old sign, nothing recent. Inactive.
C-9	BMASD045	—	—	—	1	—	—	—	IA	No new BUOW sign. Inactive.
D-11	BBBH5001	—	—	—	3	—	—	W, P	PA	Obscured old white wash.
D-11	BBBDT001	—	—	—	3	—	—	W	PA	Obscured old whitewash on burrow apron, left when rocks.
D-11	BBBEG001	—	—	—	3	—	—	—	PA	No new BUOW sign observed.
D-10	BMABV009	—	—	—	?	—	—	—	IA	No BUOW sign. Inactive.

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Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

Project: SM Site: Blythe Date: 6-13-19 Surveyor: DT GPS Unit: _____

Pag

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 identify owl pairs; reproductive statu

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

Common side-blotched lizard
Bats (Ca. leaf-nosed maybe?)
Lesser nighthawk

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-13-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:45 pm	99	4 mph	0	30
End	8:15 PM	84	5 mph	0	30

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
G9	BKBSD026	N			1			W.	PA	Old W. obscured
G9	BMAGL060	N			1			W.	PA	Old small dozen of W. obscured
G9	BKBSP025	N			1			W.	PA	Obscured old W.
G9	BMALL007	N			1			W.	PA	Obscured old W.
G7	BMAMG012	N			2			None	IA	No new W.
G7	BKCBMG001	N			2			None	IA	No new W.
G7	BMASC011	N			2			None	IA	No new sign
G7	BMARW021	N			2			None	IA	No new W.

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Reviewed by surveyor (initials, date): EG 6-14 *Approved by team leader (initials, date):*

Project: SM Site: Blythe Date: 6-13-09 Surveyor: EG GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 identify owl pairs; reproductive statu

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

Bats, Lesser nighthawks

Comments/Notes:

Reviewed by surveyor (initials, date): Approved by [illegible]

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/13/09 ~~N/S~~ O/NS

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Hum	Precip.	Cloud Cover (%)
Start	5:40am	74	5 mph	45	0	60
End	7:38 am	78	3 mph	38	0	20

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
	BKBRN009	N	N		1	—	—	none	IA	no sign or tracks
	BMASC051	N	N		1	—	—	none	IA	twigs in front some cobwebs - changing from PA to IA
J-10	BMAJH027	N	Y(2)		1			w	PA	sign appears to be old
J-10	BBBCG001	N	Y		1			W	PA	lots of KF scat(old) some w / check more time
	BBBEG002	Couldn't	find sign		1	not	there		~~NS~~	Inactive? JP
H-8	see map	N			1	—	—	w (old)	IA	old sign no new sign Chang from PA > IA

*IDENT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

[1]Does the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT Code.

[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy). NS= Not Suitable

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/13/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:05 pm	90°	9 mph	0	20
End	7:40 pm				

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
C-6	BBBGL002 / BPBGL009	N	Y	—	2	4x6	>12"	W (old)	PA→IA	old W, no new sign. small amount.
C-6	BDBGL003	N	N	—	2	12x7	12"	NONE	PA→IA	
C-5	BBBSD002 / BDBPBG01	N	N	—	2	6x4	>8"	W (old)	PA→IA	old sign. no pellets.
C-4	BMAJP007 /	N	N	—	3	8x4'	6'	None	PA→IA	Huge cave in Bank of wash NS
to	BMAGL038									
C-4	BMAJP006	N	N	—	3	14"x10"	>12"	None	PA→IA	No sign

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[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blythe Date: 6-13-09 Surveyor: RLC GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.

**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

L. Nighthawk.

Comments/Notes:

Approved by team leader (initials, date): _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/14/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	0510 am	68	1-6	0	30
End	0600 am	78	1-8	0	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
K-5	BMACG023	N	N	—	4	6x7	>12"	None	PA→IA	No sign.
K6	BMAMR041	N	N	—	2?	6x5	>10"	None	PA-IA	KF tracks.
K-6	BKBCG009	N	Y	—	2?	7x5	>10"	None	PA-IA	KF complex
K-6	BKBMG004	N	Y	—	2?	6x7	>10"	None	PA-IA	Fresh KF sign
J-6	BKBCG010	N	Y	—	2?	7x9	>12"	None	PA→IA	Fresh KF sign.
J-6	BMAMG029	N	Y	—	2?	5x5	>8"	None	PA-IA	
J-7	BBBMR001	N	N	—	2	6x5	>12"	W(old)	PA	- old W. cleared to view any new sign

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM Site: Blythe Date: 6-17-09 Surveyor: RLC GPS Unit: _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 identify owl pairs; reproductive statu

*IDENT Code: the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
**Behavior (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

LOSA

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-14-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	Josh Meidav

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:15a.m.	68	1.6	0	30
End	600	72	1.9	0	5

—JP

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
K7	BMAC6066	N	Y 1:S 1:NS	—	2	8x5	>13	None	IA	Burrow curves left. Mixed w/ GS No sign after obs. No signs (fresh). complex
K7	BBBJ2001	N	Y 2:S	—	2	7x4	>12	NONE	IA	Burrow curves right. No signs after obsure ment.
X J7	BMAJH016	N		—	2					
RC J7	BBBMR061	N		—	2					
X J8	BMASC057	N		—	2					
K8	BBBRW002	N	N	—	2	9x6	>12	NONE	IA	No fresh signs. Burrow curves right
JP K8	BMASC050	N		—	2					

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[2] BUOW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.

[3]Burrow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by burrowing owls, but is of suitable size for occupancy), NS = Not Suitable (burrow characteristics not suitable for BUOW use).

*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM **Site:** Blythe **Date:** 6-14-09 **Surveyor:** JM **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

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****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

Zebra lizard
whiptail

Comments/Notes:

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-14-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	E	EG

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:10 AM	68	1.6	0	30
End	6:40 AM	78	1.8	0	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
K9	BKBRW009	N			2			NONE	IA	No sign, no owls seen
J10	BMAJH027	N			2			NONE	IA	No sign, no owls seen
J10	BBBCG001	N			2			NONE	IA	No new sign, no owls

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Reviewed by surveyor (initials, date): EG 6-14 *Approved by team leader (initials, date):*

Project: SM **Site:** Blythe **Date:** 6-14-09 **Surveyor:** EG **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 identify owl pairs; reproductive statu

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Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

Loggerhead shrike, raven,

Comments/Notes:

Reviewed by surveyor (initials, date): Approved by team leader (initials, date):

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM Site: Blythe Date: 6/14/09

1/N S

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	B	JP

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:09 am	75	0 mph	37	15
End	6:40	76	0 mph	46	0

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
	BMASC016	N	Y(2)		3	—	—	none	IA	no sign
	BMARG026	N	N		3	—	18	none	NS	filled in @ 18"
	BMAJP009	N	Y		3		18+	none	IA	old scat
	BDASC050	N	N			—	18+	none	IA	no sign
	BBBEG002	N			3			old W,P	IA	no sign

This added from notebook at later date notes in field notebook dated 6/14/09 JP

NT Code: the unique 8-digit code that identifies the individual burrow or burrow complex within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
s the Burrow ID represent a complex of multiple burrows? Y = Yes, multiple burrows forming a complex are represented by this IDENT Code; N = No, only one burrow is represented by this IDENT

OW or Sign: O-Owl, W-Whitewash, P-Pellets, T- BUOW Tracks, B- Bones (from degraded pellets), F-Feathers, Pr-prey remains, Ef-Eggshell fragments, St-Sticks, NONE-no sign detected.
ow Status: A = Active (live owl observed at burrow, or sign of recent use; fresh sign), PA = Potentially Active (evidence of previous, but not recent, use; old sign), IA = Inactive (no evidence of use by ving owls, but is of suitable size for occupancy). NS= Not Suitable

Reviewed by surveyor (initials, date): _____ *Approved by team leader (initials, date):* _____

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6/14/2009

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	D	D T

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	5:15 AM	68	1.6 avg	none	30
End	7:25 AM	78	1.8 avg	none	5

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
K-10	BMAEE001	N	—	—	2	—	—	—	IA	No BUOW sign. Inactive.
K-9	BMASC051	N	—	—	3	—	—	—	IA	No BUOW sign. Inactive.
H-11	BBBCG002	N	—	—	3	—	—	—	IA	No new BUOW sign. Inactive.
D-7	BMAMR004	N	—	—	4	—	—	W	IA	Old whitewash, no new sign. Inactive.

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*Reviewed by surveyor (initials, date):*_____ *Approved by team leader (initials, date):*_____

Project: SM **Site:** Blythe **Date:** 6-14-09 **Surveyor:** DT **GPS Unit:** _____

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 identify owl pairs; reproductive statu

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Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nestin

Bat

Comments/Notes:

Reviewed by surveyor (initials, date): *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Palen Blythe **Date:** 6/15/09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	A	RLC

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	605 pm	91	3	0	50
End	9:15	87	5	0	60

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh etc.]. List photo references here. If present, # owls, pair status age, sex, etc. and go to page 3.)
J-7	BBBMR001	N	N	—	4?	—	—	None	IA	-No new sign
K-1	BMAJB002	N	N	—	4?	—	—	None	IA	-No new sign
L-11	BBBEB004	N	N	—	4?	—	—	None	IA	-No new sign

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Reviewed by surveyor (initials, date): RLC / 6/15/09 *Approved by team leader (initials, date):*

BURROWING OWL (BUOW) FIELD SURVEY DATA SHEET

Project: SM **Site:** Blythe **Date:** 6-15-09

Survey Type (Phase 2/3)	GPS Unit	Surveyor(s)
3	C	Josh Mendez

	Time	Temp (°F)	Wind (Beaufort)	Precip.	Cloud Cover (%)
Start	6:20	91	3	0	50
End	8:15pm	87	5	0	50

D-11 BBBDT001 BBBHS001 BBBEG001 (800N SW) -JP

Potential BUOW Burrows:

Map Sheet	Burrow ID (GPS IDENT Code*)	New Burrow? (Y/N)	Burrow complex?[1] (Y/N)	GPS Coordinates for New Burrows (NAD 83 Zn 11N)	Visit #	Burrow Width and Height (in.)	Est. Burrow Depth (in.)	BUOW or Sign Present[2] (list all that apply)	Burrow Status[3] (A, PA, IA)	Comments (Note burrow/complex characteristics and sign condition [fresh, etc.]. List photo references here. If present, # owls, pair status, age, sex, etc. and go to page 3.)
D-11	BBBHS001	N	N	—	4	—	—	NONE	IA	Inactive, no signs. ↑ amount of GS scat.
D-11	BBBDT001	N	N	—	4	—	—	old P&W	IA	Old P&W, No new signs on obscured area.
D-11	BBBEG001	N	N	—	4	—	—	NONE	IA	No new signs.
				—						

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[1]**Does the Burrow ID represent a complex of multiple burrows? Y = Yes**, multiple burrows forming a complex are represented by this IDENT Code; **N = No**, only one burrow is represented by this IDENT Code.

[2] **BUOW or Sign: O-**Owl, **W-**Whitewash, **P-**Pellets, **T-** BUOW Tracks, **B-** Bones (from degraded pellets), **F-**Feathers, **Pr-**prey remains, **Ef-**Eggshell fragments, **St-**Sticks, **NONE-**no sign detected.

[3]**Burrow Status: A = Active** (live owl observed at burrow, or sign of recent use; fresh sign), **PA = Potentially Active** (evidence of previous, but not recent, use; old sign), **IA = Inactive** (no evidence of use by burrowing owls, but is of suitable size for occupancy), **NS = Not Suitable** (burrow characteristics not suitable for BUOW use).

Reviewed by surveyor (initials, date): _____ ***Approved by team leader (initials, date):*** _____

Project: SM **Site:** Blythe **Date:** 6-15-09 **Surveyor:** JM **GPS Unit:** C

BUOW Detections:

Map Sheet	Detection ID (GPS IDENT Code*)	GPS Coordinates (NAD 83 Zn 11N)	Associated Burrow ID (GPS IDENT Code*), if applicable	# of BUOWs Detected	Sex (M/F/Unk.)	Age (A/J/Unk.)	Behavior**	Comments (include habitat description within 50 m; identify owl pairs; reproductive status)

***IDENT Code:** the unique 8-digit code that identifies the detection within the project site (e.g., PBBSD001). See page 4 for nomenclature and codes.
****Behavior** (e.g., courtship, copulation, foraging, resting, alarm, territorial, parental, juvenile, etc.)

Other Species Detected (list ALL wildlife species and sensitive plants detected. For special-status, record IDENT Code, GPS Coordinates, and relevant notes [e.g., nesting]):

@ BBBPT001 (set up spotting scope),

bats

Comments/Notes:

STATE OF CALIFORNIA
ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION

In the Matter of:
APPLICATION FOR CERTIFICATION
for the *BLYTHE SOLAR POWER PROJECT*

Docket No. 09-AFC-6
PROOF OF SERVICE
(Revised 1/26/2010)

APPLICANT

Alice Harron
Senior Director of Project Development
1625 Shattuck Avenue, Suite 270
Berkeley, CA 94709-1161
harron@solarmillenium.com

Elizabeth Ingram
Developer, Solar Millennium LLC
1625 Shattuck Avenue, Suite 270
Berkeley, CA 94709
ingram@solarmillennium.com

APPLICANT'S CONSULTANT

Carl Lindner
AECOM Project Manager
1220 Avenida Acaso
Camarillo, CA 93012
carl.lindner@aecom.com

Ram Ambatipudi
Chevron Energy Solutions
150 E. Colorado Blvd., Ste 360
Pasadena, CA 91105
rambatipudi@chevron.com

CO-COUNSEL FOR APPLICANT

Scott Galati, Esq.
Galati/Blek, LLP
455 Capitol Mall, Suite 350
Sacramento, CA 95814
sgalati@gb-llp.com

Peter Weiner
Matthew Sanders
Paul, Hastings, Janofsky & Walker LLP
55 2nd Street, Suite 2400-3441
San Francisco, CA 94105
peterweiner@paulhastings.com
matthewsanders@paulhastings.com

INTERESTED AGENCIES

Holly L. Roberts, Project Manager
Bureau of Land Management
Palm Springs-South Coast Field Office
1201 Bird Center Drive Palm Springs, CA 92262
CAPSSolarPalen@blm.gov

California ISO
e-recipient@caiso.com

INTERVENORS

California Unions for Reliable Energy (CURE)
Tanya A. Gulesserian,
Marc D. Joseph
Adams Broadwell Joseph & Cardozo
601 Gateway Boulevard, Suite 1000
South San Francisco, CA 94080
tgulesserian@adamsbroadwell.com

ENERGY COMMISSION

Karen Douglas
Chair and Presiding Member
kldougla@energy.state.ca.us

Robert Weisenmiller
Commissioner and Associate Member
rweisenm@energy.state.ca.us

Raoul Renaud
Hearing Officer
rrenaud@energy.state.ca.us

Alan Solomon
Project Manager
asolomon@energy.state.ca.us

Lisa DeCarlo
Staff Counsel
ldecarlo@energy.state.ca.us

Public Adviser's Office
publicadviser@energy.state.ca.us

DECLARATION OF SERVICE

I, Carl Lindner, declare that on June 16, 2010, I served and filed copies of the attached:

Western Burrowing Owl Technical Report

The original document, filed with the Docket Unit, is accompanied by a copy of the most recent Proof of Service list, located on the web page for this project at:

[http://www.energy.ca.gov/sitingcases/solar_millennium_blythe].

The document has been sent to the other parties in this proceeding (as shown on the Proof of Service list) and to the Commission's Docket Unit, in the following manner:

(*Check all that Apply*)

For service to all other parties:

___X__ sent electronically to all email addresses on the Proof of Service list;

_____ by personal delivery or by overnight delivery service or depositing in the United States mail at Camarillo, California with postage or fees thereon fully prepaid and addressed as provided on the Proof of Service list above to those addresses **NOT** marked "email preferred."

AND

For filing with the Energy Commission:

__X_ sending an original paper copy and one electronic copy, mailed and emailed respectively, to the address below (preferred method);

OR

_____ depositing in the mail an original and 12 paper copies, along with 13 CDs, as follows:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 09-AFC-6
1516 Ninth Street, MS-4
Sacramento, CA 95814-5512

docket@energy.state.ca.us

I declare under penalty of perjury that the foregoing is true and correct.

Carl E. Lindner