UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION IX
75 Hawthorne Street
San Francisco, CA 94105

October 22, 2010

Ms. Jenny Marek
U.S. Fish and Wildlife Service
2493 Portola Road, Suite B
Ventura, CA 93003

Mr. Jeff Humble
California Department of Fish and Game
PO Box 1179
Ventura, CA 93002

Ms. Mary Meyer
California Department of Fish and Game
226 West Ojai Avenue, Suite 101
PMB 501
Ojai, CA 93023

Subject: EPA Radiological Study of the Santa Susana Field Laboratory Area IV and the Northern Buffer Zone; ***Quarterly Biological Monitoring Report #1***

Dear Ms. Marek, Mr. Humble, and Ms. Meyer:

The United States Environmental Protection Agency (US EPA) has begun its radiological study at Area IV and the Northern Buffer Zone of the Santa Susana Field Laboratory (SSFL) located in eastern Ventura County. EPA is conducting this project pursuant to federal legislative mandate HR2764, the Consolidated Appropriations Act of 2008, and the authority granted under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Attached is EPA's Quarterly Biological Monitoring Report #1 dated October 22, 2010. The purpose of this report is to provide a quarterly monitoring update, which summarizes:

- Project Activities and Operations,
- Biological Surveys, Monitoring, and Impacts to Federally Listed Species and their Critical Habitat, if applicable,
- Biological Surveys, Monitoring, and Impacts to State listed species and Species of Special Concern,

- Riparian Area impacts, and
- Issues Encountered and Adaptive Management.

The attached report covers EPA project activities during the period from July 22 to October 5, 2010. EPA intends to issue biological monitoring status reports to document our ongoing compliance with the Biological Opinion concerning the subject project issued by the U.S. Fish and Wildlife Service (USFWS) on May 25, 2010 and our compliance with the substantive technical requirements of the California Endangered Species Act, the California Department of Fish and Game Code Section 1602 (riparian protection), the Federal Migratory Bird Treaty Act and the California Fish and Game Code Sections 3503 and 3503.5 (for protection of nesting birds).

Please give me a call at (415) 947-4148 if you have any questions regarding the information provided herein.

Sincerely,

Craig Cooper
Project Manager
SSFL Site

Cc: Stephie Jennings, Department of Energy
Rick Brausch, California Department of Toxic Substances Control

Attachment: Quarterly Biological Monitoring Report #1 dated October 22, 2010.

QUARTERLY BIOLOGICAL MONITORING REPORT #1

RADIOLOGICAL STUDY OF THE SANTA SUSANA FIELD LABORATORY AREA IV AND NORTHERN BUFFER ZONE

Prepared for:

U.S. Environmental Protection Agency Region 9
75 Hawthorne Street
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Prepared by:

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October 22, 2010

INTRODUCTION

The U.S. Environmental Protection Agency (EPA) is conducting a radiological characterization of a portion of the Santa Susana Field Laboratory (SSFL), located in the Simi Hills of eastern Ventura County, California (**Figure 1**). The two areas at SSFL being characterized are Area IV, a 290-acre administrative section where the U.S. Department of Energy and its contractors once operated several nuclear reactors and associated fuel facilities and laboratories, and the Northern Buffer Zone (NBZ), a 182-acre area with no history of development that lies adjacent to Area IV. These two areas compose the Area IV Study Area.

Several activities associated with the radiological study of the Area IV Study Area have the potential to impact Federally listed species and their critical habitat, as well as resources protected under California State law. These activities include vegetation cutting, gamma scanning, geophysical survey, surface and subsurface soil sampling, groundwater monitoring well sampling, and surface water and sediment sampling. The scope of these activities is described in further detail in the Biological Assessment (BA) prepared for EPA by HydroGeoLogic, Inc. (HGL), and Envicom Corporation dated February 12, 2010. To minimize the impact to natural resources and riparian habitat within the study area, protection measures were developed and are being implemented as scanning activities progress. These measures are detailed in Appendices E, G and N, respectively, of the Site Management Plan (dated September 24, 2010).

EPA is conducting this project pursuant to federal legislative mandate HR2764, the Consolidated Appropriations Act of 2008, and the authority granted under the Comprehensive Environmental Response, Compensation, and Liability Act. Formal consultation under Section 7 of the Endangered Species Act has been conducted with the U.S. Fish and Wildlife Service (USFWS), and a Biological Opinion was issued on May 25, 2010. The USFWS Biological Opinion identified Avoidance and Minimization Measures keyed to each of the proposed activities and Federally listed species that may occur within the Action Area. EPA has agreed to implement the various components of the Area IV radiological study in compliance with the Biological Opinion and its requirements. Although not under discretionary approval, it is also EPA's goal to comply with the substantive technical requirements of the State of California natural resource protection laws, such as the California Endangered Species Act and California Fish and Game Code Section 1602 for impacts to riparian resources. Project activities also are being conducted to comply with additional applicable biological resource laws or regulations, including the Federal Migratory Bird Treaty Act and California Fish and Game Code 3503 and 3503.5 (for protection of nesting birds).

The purpose of this report is to provide a quarterly monitoring update, which summarizes 1) Project Activities and Operations, 2) Biological Surveys, Monitoring, and Impacts to Federally Listed Species and their Critical Habitat, if applicable, 3) Biological Surveys, Monitoring, and Impacts to State listed species and Species of Special Concern, 4) Riparian Area impacts, and 5) Issues Encountered and Adaptive Management. The report covers the period from July 22 to October 5, 2010.

PROJECT ACTIVITIES AND OPERATIONS

The Area IV Study Area is subdivided into Subareas 3, 5A, 5B, 5C, 5D, 6, 7, 8, NE, and NW (**Figure 2**). The subareas have been divided into 76 Survey Sections (SS). The SSs include roads. To date, EPA has conducted vegetation cutting, gamma scanning, monitoring well sampling and geophysical survey tasks over portions of the project area.

Vegetation within the study area is being cut or trimmed to allow access for vehicles and equipment, and provide clearance for operation of gamma scanning equipment at optimum levels of sensitivity. Vegetation cutting protocols were prepared and are found in Appendix E of the Site Management Plan. Standard equipment used during vegetation cutting includes weed whackers, lopping shears, chainsaws, a skid steer with mower and fork-lift attachments, chipper, and a front-loading tractor for the safe removal of poison-oak branches (**Photo Plate 1**). Vegetation cutting began on July 22, 2010, in Subarea 5C with gamma scanning commencing the following week. Vegetation cutting has been completed in Subareas 5A, 5B, and 5C. The majority of Subarea 5B has been cut except for the Least Bell's vireo (*Vireo bellii* ssp*. Pusillus*) (LBV) habitat area in SS-12 that was off-limits until October 1 pursuant to Avoidance and Minimization Measure GEN-9 in the USFWS Biological Opinion Cutting in this LBV area was underway as of October 5. A portion of Subarea 5D has been cut: specifically SS-53, 54, 55, 56, 57, and most of SS-51 that falls within Subarea 5D.

Gamma scanning is being accomplished using various scanning devices, depending on site conditions. Scanning equipment includes the ERGS off-road forklift vehicle, mule-mounted scanning devices, handcart, and handheld scanner (Photo Plate 1). Gamma scanning is mostly complete for Subarea 5C and the portion of Subarea 5B outside of the LBV habitat area in SS-12. Most of Subarea 5A has been scanned and was in the process of being completed as of October 5. Some areas will need to be rescanned due to the data gaps that occur during gamma scanning.

Geophysical surveys have been completed for Subarea 5C and the portion of Subarea 5B outside of the LBV area in SS-12.

The first of two monitoring well sampling events occurred in mid-July, with a total of 65 wells sampled. Light foot and vehicle traffic occurred on previously mowed areas spanning across Area IV.

BIOLOGICAL CLEARANCE SURVEYS, MONITORING, AND IMPACTS

Clearance Survey Methodology

Before project activities commenced within each of the subareas, qualified biologist(s) from Envicom conducted clearance surveys to document the presence/absence and location of Federal and State Special Status biological resources and riparian habitat (**Figure 3**). The locations of the resources have been marked in the field with conspicuous flagging, and mapped using Global Positioning System (GPS) technology and Geographic Information System (GIS) software. Mapped resources are shown on **Figures 4 through 7**. Clearance survey monitoring forms

(**Attachment 1**) are prepared for each clearance survey to document the resources observed and to identify which Avoidance and Minimization Measures included in the Biological Opinion are applicable to future activities occurring within the survey area.

Biological Monitoring Methodology

Qualified biological monitor(s) from Envicom are present on a daily basis. The monitors attend the safety meeting with field crews and monitor project activities, which during this monitoring period included vegetation cutting, gamma scanning and geophysical surveying. Monitoring well sampling was not monitored by the biological monitor(s) during this period because access to the monitoring wells was gained via established access and physical damage to listed species or their PCE's and habitats was not anticipated. The biological monitor(s) work alongside the crews to point out the locations of Special Status biological resources and in some cases assist the crews in avoiding impacts. Daily biological monitoring forms (**Attachment 2**) are prepared to document the activities monitored, Special Status biological resources encountered by the field activities, and any possible impacts.

Clearance Survey and Monitoring Results for Federally Listed Species

Only one federally listed species addressed in the Biological Opinion has been documented in the project area: Braunton's milkvetch. The observed locations of Braunton's milkvetch are illustrated on Figures 4 through 7 and discussed in more detail below.

Braunton's milkvetch

This species has been observed in Subareas 5A, 5B, and 5D. **Table 1** summarizes the locations where the species has been observed during either clearance surveys or monitoring. SS-51 likely contains the greatest density of Braunton's milkvetch *(Astragalus brauntonii)* in the project area (**Photo Plate 2**). A total of five (5) milkvetch plants have been incidentally cut or injured during vegetation cutting in SS-51. **Table 2** provides a description of each of the five incidents. Gamma scanning has not yet been conducted in SS-51. Outlying individual Braunton's milkvetch plants in SS-7 and SS-10 have been successfully protected during the vegetation cutting, gamma scanning, and geophysical survey activities completed in these survey areas.

Critical Habitat Unit 1d for Braunton's milkvetch covers portions of SS-51, 52, 55, 56, 58, 59. The Primary Constituent Elements (PCEs) (defined as features that are essential to the conservation of the species) for Braunton's milkvetch are: 1) calcium carbonate soils derived from marine sediment; 2) low proportion (<10%) of shrub cover directly around the plant; and 3) chaparral and coastal sage scrub communities characterized by periodic disturbances that stimulate seed germination (e.g., fire, flooding, erosion) and reduce vegetative cover. These PCEs are found in the southern portion of SS-51 and SS-58 where the greatest density of milkvetch occurs. Within this area, the calcium carbonate soils remain intact, and Vegetation Cutting activities have reduced the cover of shrubs rebounding from the 2005 Topanga Fire such as toyon (*Heteromeles arbutifolia*), chamise (*Adenostoma fasciculatum*), and sugar bush (*Rhus*

ovata) (Photo Plate 2). This disturbance may yield a beneficial short-term effect on the condition of the Critical Habitat.

Dudleya species

None of the Federally or State listed dudleya species have been encountered. However, many individual dudleya have been found in the project area in a withered, unidentifiable state (in addition to many identifiable *D. pulverulenta* and *D. lanceolata*, which are not protected) (**Photo Plate 3**). As a precaution, all unidentifiable dudleya have been flagged as protected, and a biological monitor has been present during project activities in the area. No flagged dudleya have been harmed during project activities.

Potential vernal pool habitat for Vernal Pool Branchiopods

A small seasonal wetland (40 feet long by 25 feet wide) was identified as potential habitat for **Vernal Pool Branchiopods** within SS-7. The wetland was delineated by a biological with flagging and declared to be off-limits unless a biological monitor is present (Photo Plate 3). The pool has been in a dry state since before the start of project activities in July 2010. No presence/absence survey for Riverside fairy (*Streptocephalus woottonii*) shrimp or vernal pool fairy shrimp (*Branchinecta lynchi*) has been conducted. The mule team made one pass through a limited section of the pool when it was dry, resulting in minor soil compaction and displacement created by the hoofprints.

Least Bell's vireo potential habitat

A riparian habitat strip identified as potential least Bell's vireo ((*Vireo bellii ssp. pusillus*) (LBV)) habitat in SS-12 was surveyed and flagged on August 13, 2010. The flagged area was set aside as off-limits to project activities until the end of the LBV breeding season on October 1st. No LBV have been observed in the study area during clearance surveys or monitoring. Vegetation cutting and gamma scanning activities were conducted in the LBV potential habitat after October 1, 2010.

California gnatcatcher

Before project activities commenced, a protocol survey and habitat assessment was conducted (April 9 to June 4), for California gnatcatcher (*Polioptila californica ssp. californica*) within the study area. This comprehensive survey was completed in compliance with USFWS protocol guidelines under permissible weather conditions: no California gnatcatchers were observed.

Table 1
List of Federally Listed Resources Observed

Species/Resource	Survey Section	Subarea	Number of Individuals	Date
Braunton's milkvetch	SS-7	5C	1	7/28/2010
Braunton's milkvetch	SS-10	5B	2	8/13/2010
Braunton's milkvetch	SS-51	5D	500+ (estimated)	9/20/2010
Braunton's milkvetch	SS-58	5D	(not estimated)	9/20/2010
Dudleya sp.	SS-4	5C	2	7/22/2010
Dudleya sp.	SS-17	5A	10	8/17/2010
Dudleya sp.	SS-19	5A, 6	20	8/26/2010
Vernal pool branchiopod habitat	SS-7	5C	n/a	7/19/2010

Table 2
List of Federally Listed Resources Impacted

Species/Resource (# impacted)	Survey Section	Date	Impact	Description	Mapped Location (UTM)
Braunton's milkvetch (1)	SS-51	9/24/10	Uprooted	Growing in clump of 4 milkvetch, plant was not flagged but surrounding ones were flagged.	341994E 3788680N
Braunton's milkvetch (1)	SS-51	9/24/10	Stem cut	1 foot from toyon stem clump, milkvetch stem mistaken for toyon stem.	341990E 3788662N
Braunton's milkvetch (1)	SS-51	9/24/10	Damaged root base	Stem nudged by skid steer hauling cut material. Still standing but wobbly. May fall in high winds or rain.	342009E 3788687N
Braunton's milkvetch (1)	SS-51	9/28/10	Injured	Large branch torn away from main stem	
Braunton's milkvetch (1)	SS-51	10/1/10	Injured	Badly damaged on lower main stem (likely from weed whacker).	3411865E 3788691N
Vernal pool branchiopod habitat	SS-7	7/29/10	Soil disturbed by hoof prints.	Mule made one pass through a portion of the vernal pool during dry conditions. Minor soil disturbance.	N/A

Notes:
UTM – Universal Transverse Mercator
N/A – not applicable

Clearance Surveys and Monitoring Results for State Protected Biological Resources and Nesting Birds

The Santa Susana tarplant (*Deinandra minthornii*) is the only State-listed species observed during the clearance surveys and biological monitoring. However, other State protected biological resources have been observed. The location of Santa Susana tarplant and other State protected biological resources within the Action Area are illustrated on Figure 4 through 7. The following is a more detailed description of the observations and impacts associated with State protected biological resources.

Santa Susana tarplant

This species is locally common in sections of Area IV with sandstone outcrops (Photo Plate 3). A summary of tarplant observations listed by Survey Section is shown in **Table 3**. Approximately 3 plants have been impacted by project activities to date (**Table 4**). Because the Santa Susana tarplant at SSFL has been in bloom with showy yellow flowers during the July to October work period, nearly every plant has been conspicuous and easily seen and avoided during project activities. The short, compact growth form also allows most vehicles and scanning equipment to closely approach and even occasionally pass over them (with assistance from the biologist) without causing damage.

Malibu baccharis

Malibu baccharis (*Baccharis malibuensis*) has been recorded in Subarea 5D, with a significant population encountered in SS-51 and SS-58 (**Photo Plate 4**). Like the Santa Susana tarplant, Malibu baccharis exhibits a growth form that is short, compact, and not easily injured by project equipment when properly marked. However, unlike the tarplant, the baccharis is somewhat inconspicuous and has been occasionally overlooked when growing in the densely vegetated scrub and burned chaparral present at SS-51. Approximately 10 to 15 plants have been inadvertently trimmed, but none have been lost.

Southern California black walnut

A population of southern California black walnut (*Juglans californica*) trees are located along the north-facing slopes of Subarea 5D (SS-51 and SS-58 in particular). The 2005 Topanga Fire burned most of the mature walnut trunks, but many of the trees have resprouted from the bases of the burned trunks. To create the clearance required for the scanning equipment, some of the new trunks growing outward required pruning to the standard 6 to 18 inches above ground level, but many trunks growing vertically have been left intact.

Coast horned lizard

Suitable habitat was identified in SS-12, 13, 18, 19, 20, 21, 22, 23, 51, and 58. Coast horned lizards (*Phrynosoma coronatum blainvillii*) were observed in SS-51 and in SS-113 (road section adjacent to SS-58) (Photo Plate 4). Seven of the eight individuals observed in SS-51 and SS-58 have been relocated to other Survey Sections or to just outside the Area IV boundary. The other individual was left on site because it was determined that the animal was not in harm's way.

Silvery legless lizard

Suitable habitat was identified in SS-12, 13, 18, 19, 20, 21, 22, 23, 51, and 58. No silvery legless lizards (*Anniella pulchra pulchra*) have been found in the project area.

Coast patch-nosed snake

Suitable habitat was identified in SS-12, 19, 20, 51, and 58. No coast patch-nosed snakes (*Salvadora hexalepis virgultea*) have been found in the project area.

Nesting birds: mourning dove

An active mourning dove (*Zenaida macroura*) nest with two large chicks was discovered in a laurel sumac (*Malosma laurina*) at the western edge of SS-19 (UTM 342696E, 3789193N) on September 8, 2010. A 50 to 60-foot buffer was established: no project activities were allowed except for through traffic on an adjacent road. The nest was active at least through Friday, September 10. When checked on September 13, the nest was empty but intact; fecal material was observed on the surrounding vegetation, suggesting the chicks may have fledged and flown away. The surrounding area was surveyed for signs of the chicks. No chicks were located within a 100-foot radius of the nest. One of the adults continued to loaf in a shrub near the nest.

Cooper's Hawk

Cooper's hawks (*Accipiter cooperii*) have been observed in the project area, although no nesting has been documented. Suitable nesting habitat likely exists in the oak woodlands located in the northwestern and southwestern portions of the project area.

Loggerhead shrike

One loggerhead shrike (*Lanius ludovicianus*), likely a winter visitor, was observed on August 26, 2010, at SS-54 and was still in the area at least through October 1, 2010. Loggerhead shrikes inhabit open country with short vegetation and breed in isolated trees or large shrubs. In coastal Ventura County they are mainly found as winter visitors.

California horned lark

California horned lark (*Eremophila alpestris actia)* typically nest on the ground in annual grassland areas such as those found throughout Area IV. Horned larks were observed in the project area during the California gnatcatcher surveys conducted earlier in the year and were presumably the *E. a. actia* subspecies. Nesting was not observed and the species has not been observed during clearance surveys or biological monitoring.

Southern California rufuous-crowned sparrow

Southern California rufous-crowned sparrows (*Aimophila ruficeps*) are year-round residents in the Simi Hills and Santa Susana Mountains, typically nesting at or near ground level near rocky outcrops and associated low-growing shrubby and herbaceous cover. This species was observed during the California gnatcatcher surveys conducted earlier in the year. As with the California horned lark, nesting was not observed and the species has not been observed during clearance surveys or biological monitoring.

San Diego desert woodrat

Suitable habitat was identified in SS-12, 13, 16, 17, 18, 19, 20, 21, 22, 23, 25, 51, and 58. Incidental sightings of big-eared woodrat (*Neotoma macrotis*) have been recorded in SS-17 and SS-19. No San Diego desert woodrats (*Neotoma lepida*) have been found in the project area.

Table 3
List of State-Sensitive Resources Observed

Species/Resource	Survey Section	Subarea	Number of Individuals	Date
Santa Susana tarplant	SS-7	5C	5	7/19/2010
Santa Susana tarplant	SS-7	5C	28	7/26/2010
Santa Susana tarplant	SS-9	5B	3	8/13/2010
Santa Susana tarplant	SS-10	5B	5	8/13/2010
Santa Susana tarplant	SS-14	5B	1	8/13/2010
Santa Susana tarplant	SS-14	5A	70	8/17/2010
Santa Susana tarplant	SS-15	5A	30	8/17/2010
Santa Susana tarplant	SS-16	5A	10	8/17/2010
Santa Susana tarplant	SS-17	5A, 6	150	8/17/2010
Santa Susana tarplant	SS-17	5A	130	8/23/2010
Santa Susana tarplant	SS-18	5A, 6	25	8/23/2010
Santa Susana tarplant	SS-19	5A, 6	15	8/26/2010
Malibu baccharis	SS-51	5D	500+ (estimated)	9/20/2010
Southern California black walnut	SS-51	5D	40+ (estimated)	9/20/2010
Coast horned lizard	SS-113	5D	1	9/20/2010
Coast horned lizard	SS-51	5D	2	9/29/2010
Coast horned lizard	SS-51	5D	5	10/1/2010
Mourning dove active nest	SS-19	5A	2 chicks	9/8/2010
Loggerhead shrike (non-nesting)	SS-54	5D	1	8/27/2010
Riparian area	SS-1	5B, 5C	n/a	7/23/2010
Riparian area	SS-12	5C	n/a	8/13/2010

Table 4
List of State Sensitive Resources Impacted

Species/Resource (# impacted)	Survey Section	Date Impacted	Impact	Description	Mapped Location (UTM)
Santa Susana tarplant (1)	SS-51	9/24/10	Trampled	Small individual growing in pavement cracks in previously disturbed road at SS-17.	342611E, 3789381N
Santa Susana tarplant (2)	SS-51	9/24/10	Injured	Two large plants covered in mulch. Biologist brushed some off. Winter rains may wash rest away.	342535E, 3789370N
Malibu baccharis (10-15)	SS-51	(various)	Trimmed	No plants have been completely lost but some have been trimmed back by weed whackers when not properly flagged before survey activities.	
Southern California black walnut (~40)	SS-51	(various)	Trimmed	Many resprouts from 2005 fire have been trimmed to accommodate scanning equipment.	
Coast horned lizard	SS-51, SS-58	(various)	Relocated	Relocated to other Survey Sections or outside Area IV.	

Clearance Surveys and Monitoring Results for Riparian Habitat

As illustrated on Figure 5 and 6, a total of four (4) ephemeral drainages have been encountered in SS-1 and SS-12 during project activities. Shrub species associated with these areas are primarily mule fat (*Baccharis salicifolia*) and willow (Salix sp.), with coast live oak (*Quercus agrifolia*) and coyote brush (*Baccharis pilularis*) growing on the banks. The drainages have been dry since the start of project activities in July 2010, and likely only contain surface water during rainstorms. Vegetation cutting in these areas has been performed using hand tools, and plants located within or on the banks of the drainages have been left standing, with some trimming being conducted near ground level to allow for scanning (**Photo Plate 5**). Additional details on the activities conducted within each of the four drainages is provided in **Table 5**. These riparian areas do not support enough water to be considered suitable habitat for California red-legged frog. However, activities within the riparian habitat has been conducted under the supervision of

a qualified biological monitor with experience identifying California red-legged frogs and habitat.

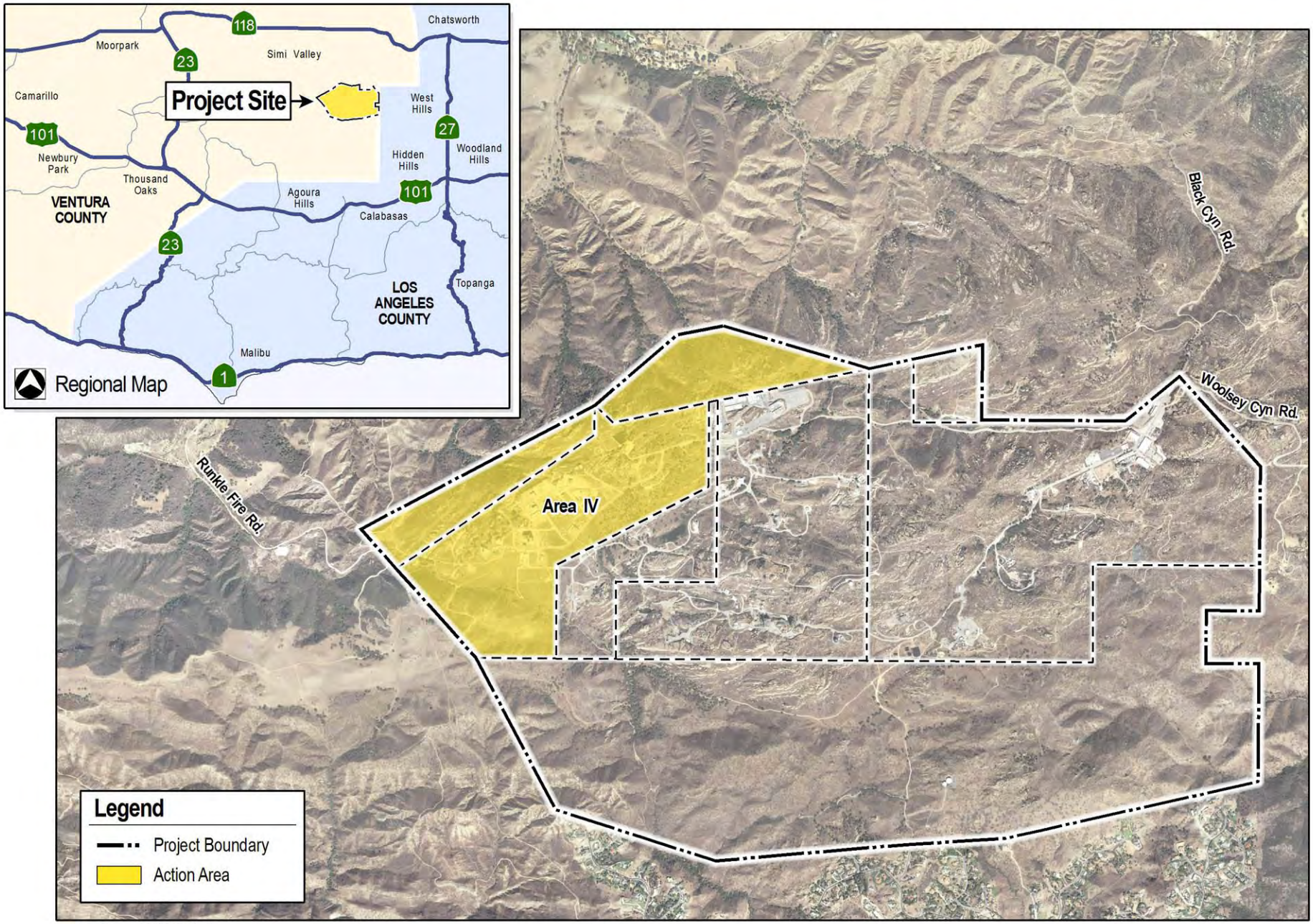
Table 5
Details on Activities Performed within Riparian Habitat

Survey Section	Approximate Dimensions	Description of Activities Performed	Significant Impacts
SS-1	500' long by 3-6' wide	Trimming of horizontal shrub limbs and limbs near ground level to passage between shrubs and scanning. Scanning by mule.	None
SS-1	200' long by 3-6' wide	Trimming of horizontal shrub limbs and limbs near ground level to passage between shrubs and scanning. Scanning by mule.	None
SS-1	235' long by 3-6' wide	Trimming of horizontal shrub limbs and limbs near ground level to passage between shrubs and scanning. Scanning by mule.	None
SS-12	450' long by 3-6' wide	Trimming of horizontal shrub limbs and limbs near ground level to passage between shrubs and scanning.	None

Issues Encountered and Adaptive Management

To date there have been no issues with implementing the terms, conditions, avoidance and minimization measures and/or other protective measures required by USFWS in the Biological Opinion. Therefore, no modifications to the terms and conditions to enhance the protection of Federally listed and State-Listed/Sensitive species are needed.

Figures



Arerial Source: CIRGIS, 2007.

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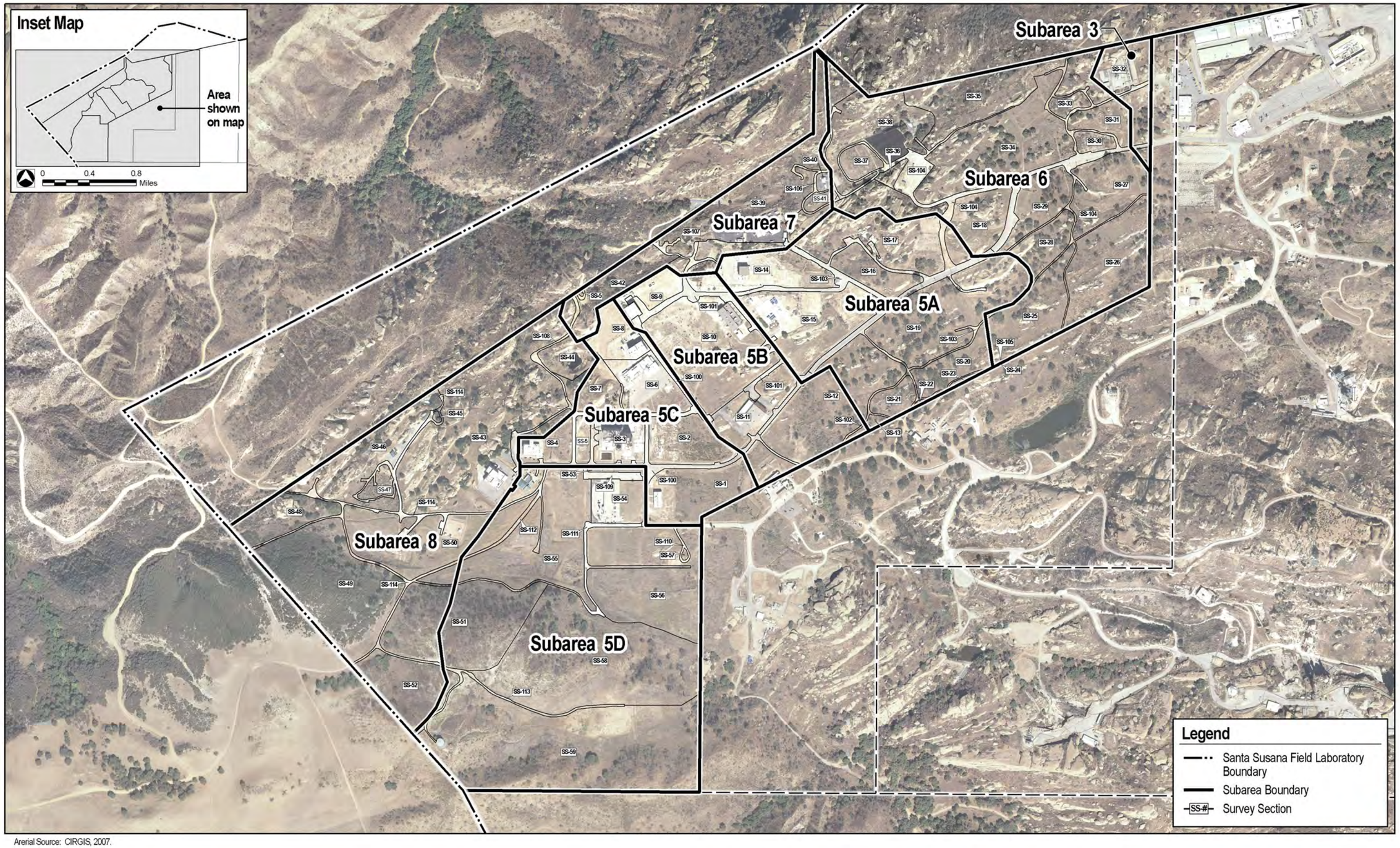
Project Location Map

0 1,300 2,600 Feet

FIGURE 1



Arerial Source: CIRGIS, 2007.

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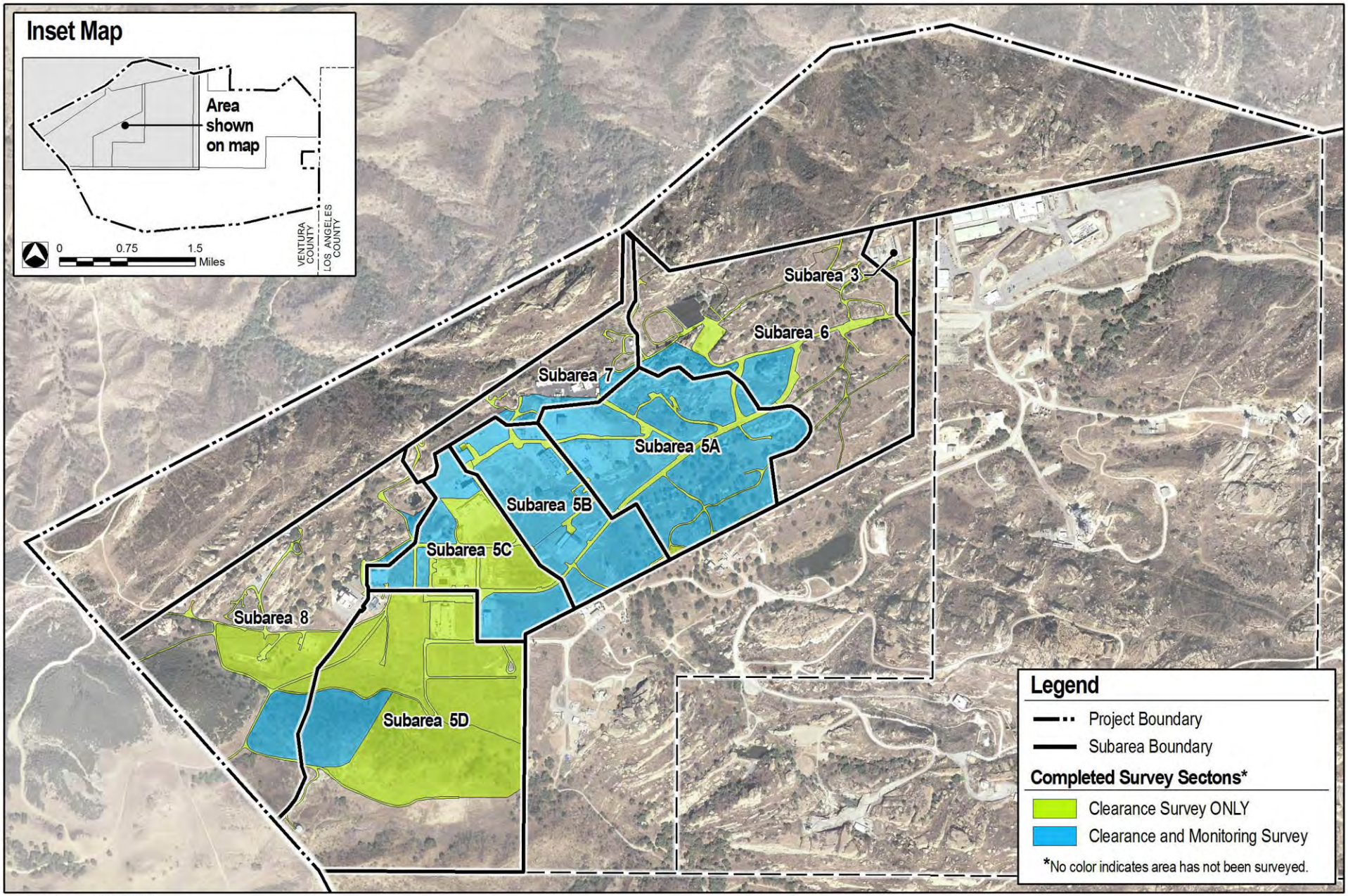
Subareas and Survey Sections

0 300 600 Feet

FIGURE 2

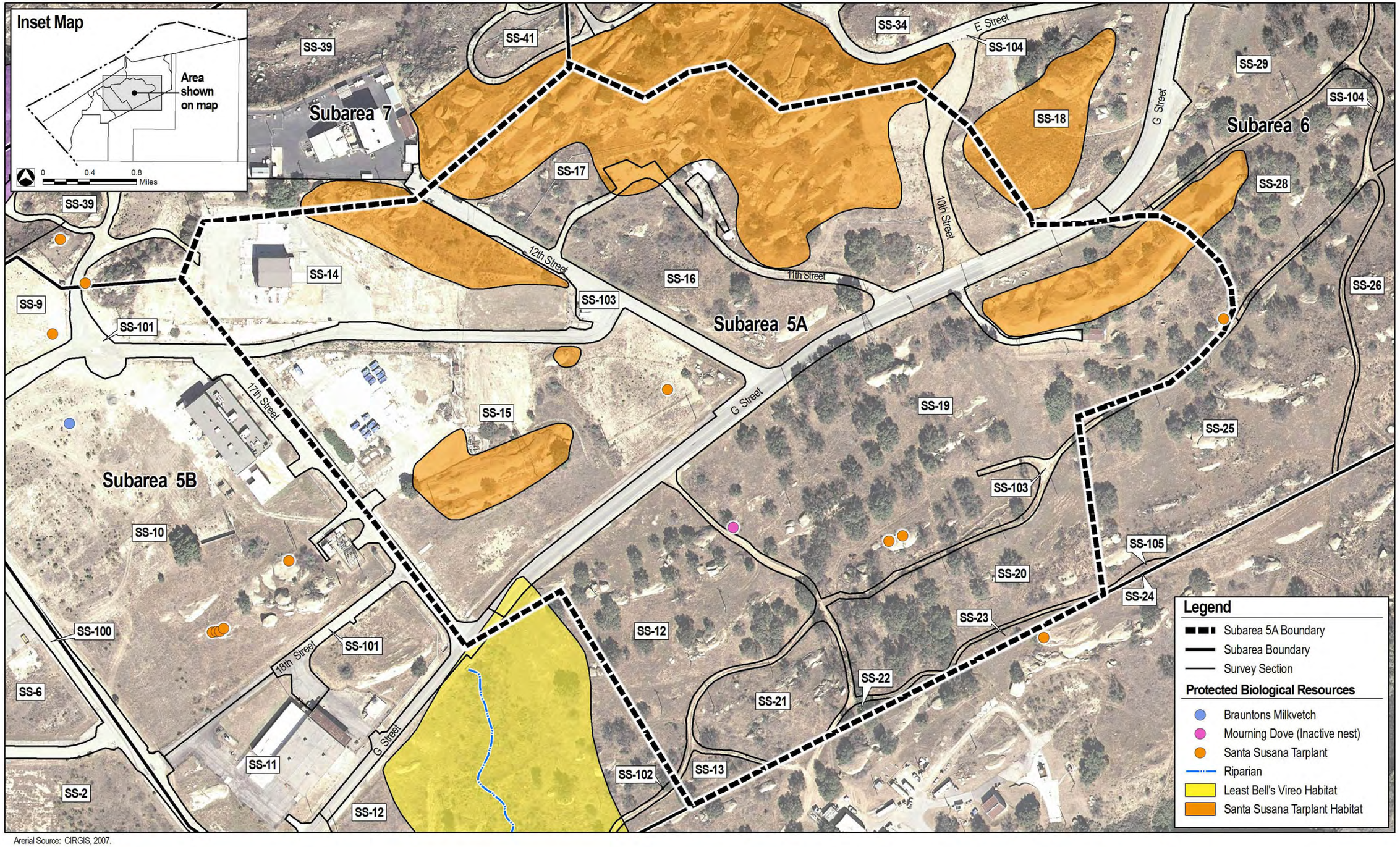


Arerial Source: CIRGIS, 2007.

Completed Monitoring and Surveying Areas

0 500 1,000 Feet

FIGURE 3



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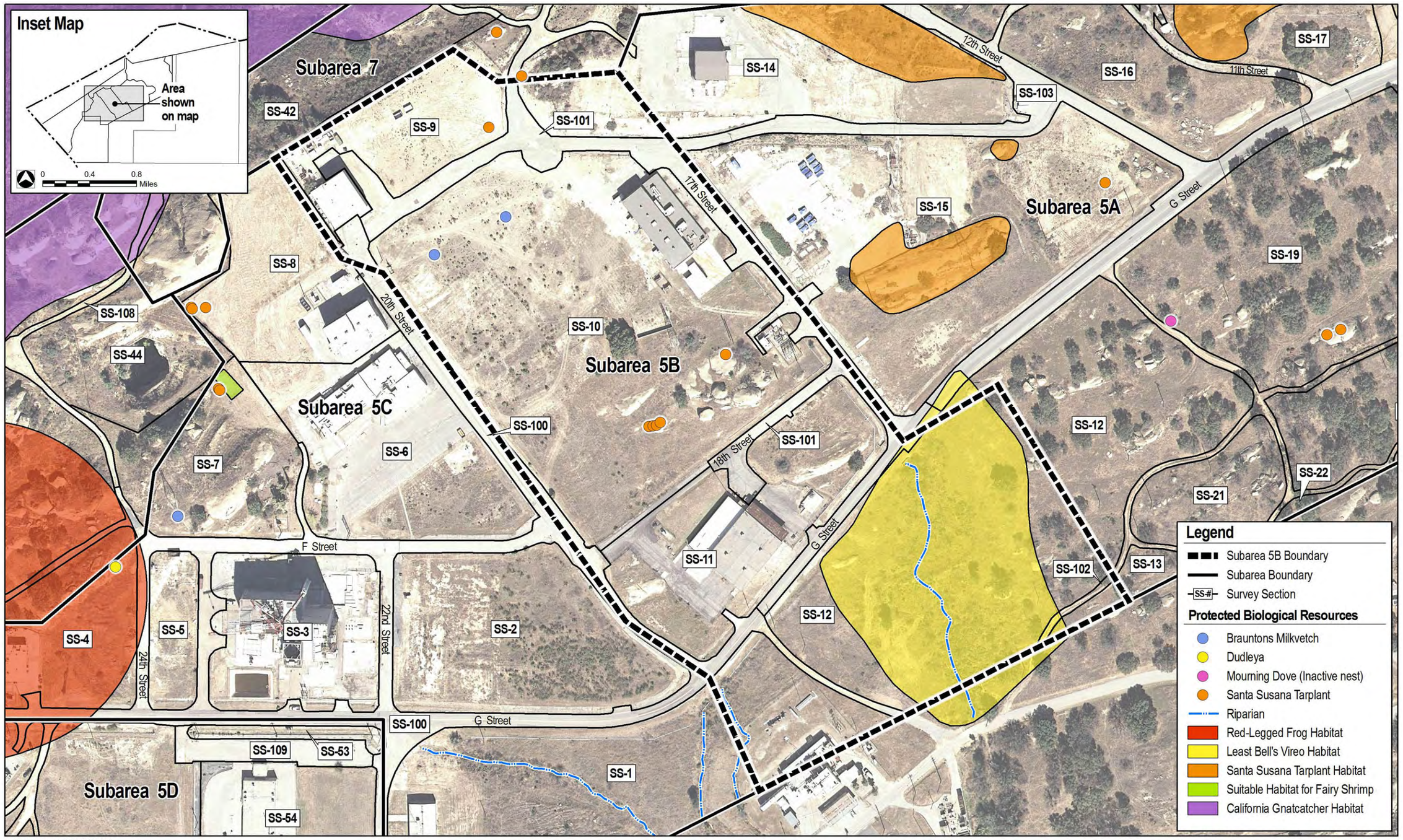
Biological Resources - Subarea 5A

0 90 180 Feet

FIGURE 4



Arerial Source: CIRGIS, 2007.

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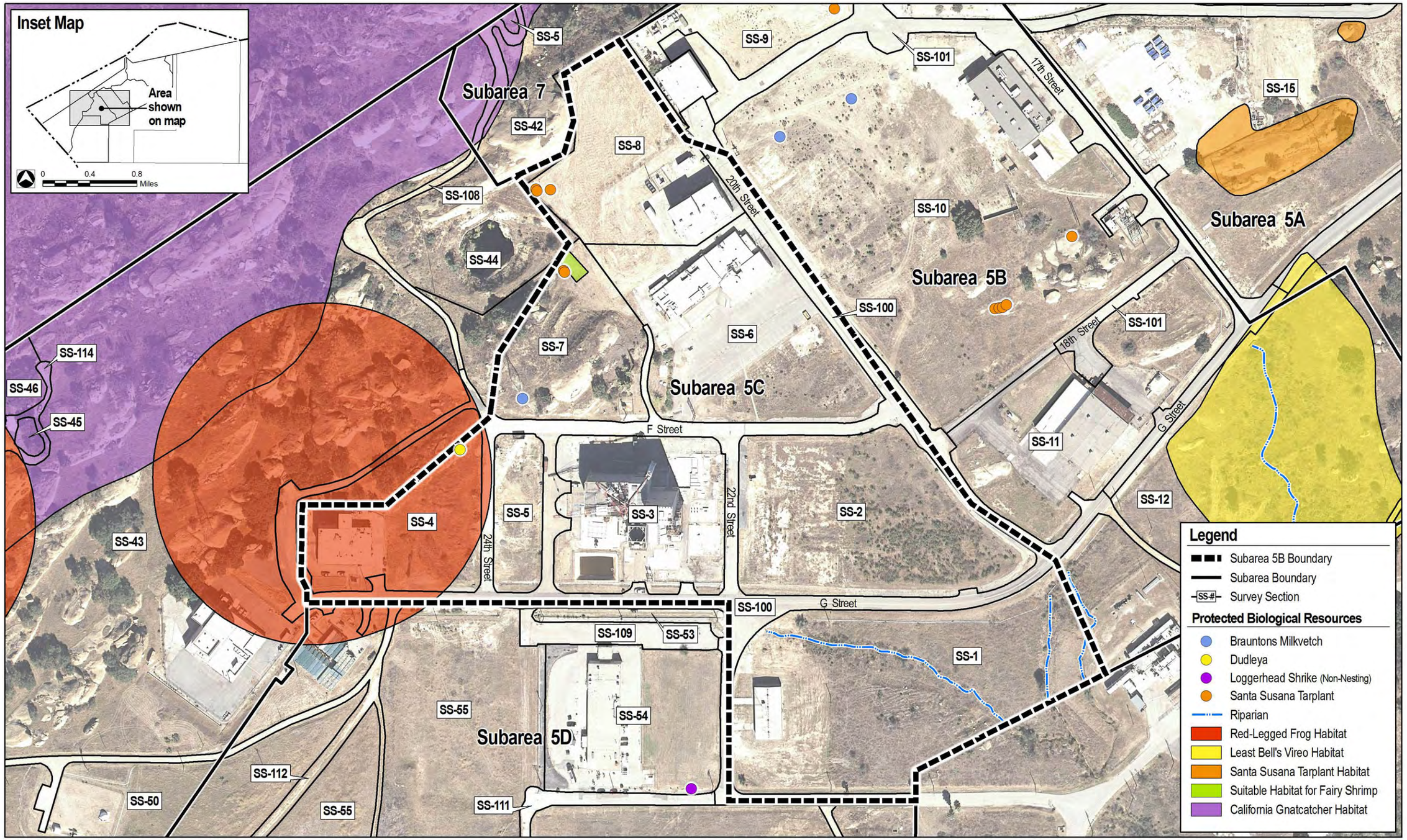
Biological Resources - Subarea 5B

0 90 180 Feet

FIGURE 5



Aerial Source: CIRGIS, 2007.

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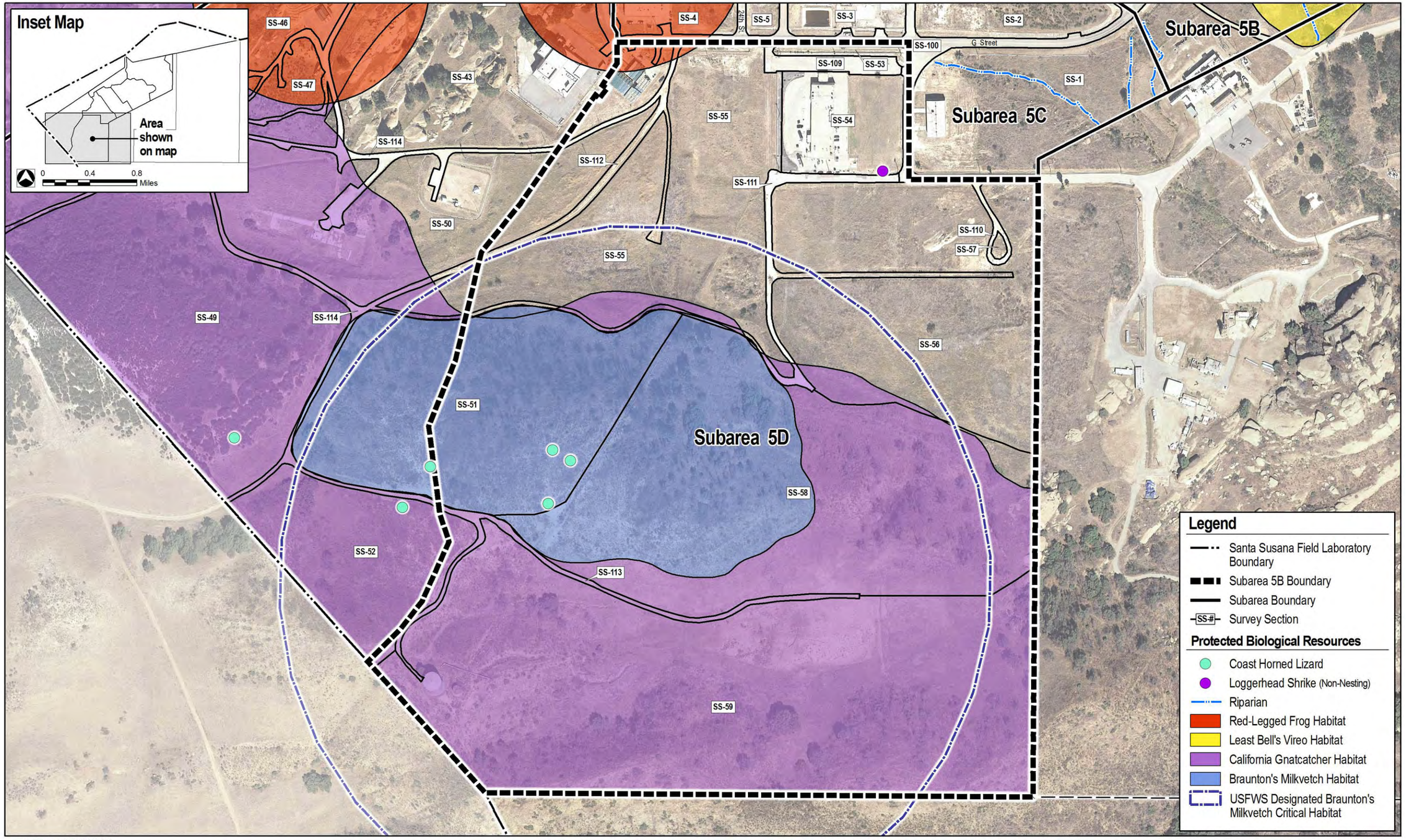
Biological Resources - Subarea 5C

0 90 180 Feet

FIGURE 6



Arerial Source: CIRGIS, 2007.

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Biological Resources - Subarea 5D

0 130 260 Feet

FIGURE 7

Photo Plates

Plate 1A – Vegetation Cutting crew cutting back a chamise stand in SS-19.

Plate 1B – Vegetation Cutting crew with chipper in SS-18.

Plate 1C – ERGS vehicle conducting Gamma Scanning in SS-9.

Plate 1D – Mule with mounted scanner conducting Gamma Scanning in SS-7.

SANTA SUSANA FIELD LAB

ENVICOM CORPORATION

Representative Photographs of Surveying and Monitoring Activities

PLATE 1

Plate 2A – Handcart scanner operator conducting Gamma Scanning in SS-8.

Plate 2B – Braunton's milkvetch before Vegetation Cutting in SS-51.

Plate 2C – Braunton's milkvetch after Vegetation Cutting in SS-51.

Plate 2D – Braunton's milkvetch Critical Habitat Unit 1d (SS-51) during Vegetation Cutting, showing reduction in cover along with flagged Braunton's milkvetch and Malibu baccharis.

SANTA SUSANA FIELD LAB

ENVICOM CORPORATION

Representative Photographs of Surveying and Monitoring Activities

PLATE 2

Plate 3A – An example of some *Dudleya* plants in an unidentifiable late-summer condition that have been protected from Vegetation Cutting activities (SS-19).

Plate 3B – The seasonal wetland at SS-7 with ERGS scanner.

Plate 3C – Santa Susana tarplant growing on sandstone outcrop in SS-18.

Plate 3D – Santa Susana tarplant protected from mowing activity during Vegetation Cutting (SS-18).

SANTA SUSANA FIELD LAB

ENVICOM CORPORATION

Representative Photographs of Surveying and Monitoring Activities

PLATE 3

Plate 4A – SS-17 during Vegetation Cutting showing intact Santa Susana tarplant.

Plate 4B – Vegetation cutting activity among protected Malibu baccharis in SS-51.

Plate 4C – Four young coast horned lizards being relocated from SS-51 to another area.

Plate 4D – Small shrubs located along an ephemeral drainage in SS-12 after Vegetation Cutting.

Representative Photographs of Surveying and Monitoring Activities

Plate 5A – Ephemeral drainage with reduced vegetative cover in SS-12 after Vegetation Cutting.

Plate 5B – Gamma Scanning activity via mule in SS-1.

Representative Photographs of Surveying and Monitoring Activities

ATTACHMENT 1
BIOLOGICAL CLEARANCE SURVEY FORMS

Date: 7/23/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5C-1 and ~~portion~~ part of 5B (no section # given for 5B portion)

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat, nesting birds	J. Anderson	Mar 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Riparian vegetation/drainages	N	HGL-SMP "Protection of Riparian Resources" pg N-1 to N-3
1	Coast live oaks/willows	N	~~HGL-SMP~~ Trees shall not be cut; Vegetation Management Protocols in HGL-SMP, related to oak trees.

NOTES AND RECOMMENDATIONS:

- A few small incised drainages cross site which contain some riparian vegetation within channel and on banks and adjacent to banks. Native vegetation within banks and channel as well as associated riparian species (willows, oaks, mulefat) adjacent to drainages shall not be cut to 6-18 inches. Understory branches of the native vegetation in drainages and trees can be trimmed to allow easier access by gamma scanning. All non-native vegetation within drainages can be cut to 6-18 inches.
- ~~Drainages will require use of hand scanning methods, perhaps the stubber in some areas.~~

Biologist Signature: [signature] Date: 7/23/10

HGL Field Supervisor Signature: Leah Speyer Date: 7/23/10

Date: 7/22/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5C - 2

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, Suitable habitat and nesting birds.	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	None found		

NOTES AND RECOMMENDATIONS:

All vegetation within 5C-2 can be cut to 6-18 inches in height.

Some shrubs can be cut to less than 6 inches to allow passage of fork-lift mounted gamma scanner with reduced risk of punctured tires provided is done to minimum extent possible.

Biologist Signature: J Anderson Date: 7/23/10

HGL Field Supervisor Signature: Leah Sprague Date: 7-23-10

Date: July 26, 2010

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5C-3

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat, nesting birds	J. Anderson	Mar 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
	None found		

NOTES AND RECOMMENDATIONS:

Biologist Signature: J Anderson Date: 7/26/10

HGL Field Supervisor Signature: Heidi Spriggs Date: 7/26/10

Date: 7/22/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SC – 4

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Dudleya sp. (2)	Y	HGL-SMP Protective Measures pgs 6-16, 17
1	Coast live oaks w/ dbh > 3in	Y *	Vegetation Management Protocols HGL-SMP related to oak trees pg E-2
			that can be cut to 6-18" are
	* Sapling flagged to avoid confusion w/ shrubs, but		
	adult trees are		obvious and not flagged.

NOTES AND RECOMMENDATIONS:

- Part of SC-4 was surveyed to clear area on July 19, 2010. Remainder surveyed during this visit.
- Two (2) Dudleya sp. (unknown species) found along dirt ridgeline – not in condition to identify to species. Two dudleya are in close proximity, location marked w/ stake & pink flagging. Also plants marked with pink flagging. These plants should be avoided and Vegetation cutting in vicinity requires supervision by biologist.
- Several coast live oaks – adult, saplings and seedlings. Seedlings can be cut to 6-18 inches. Saplings > 3in diameter at breast height and adult trees can only have lower branches pruned if < 20% girth of main stem.
- Some poison oak at site – has been flagged w/ pink flagging.

Biologist Signature: _____ Date: 7/23/10

HGL Field Supervisor Signature: Leah Spezza Date: 7/23/10

Date: JULY 19, 2010 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

HSA ~~RMI~~ - 5C

Work Area: Sub-section 2A (later renamed section 4 & 5)

SURVEYS PERFORMED

#	Survey Type	Biologist	Expiration
	Special-status species and suitable habitat survey	J. Anderson	~~on~~ March 1, 2011 onset of nesting bird season

SURVEY FINDINGS

#	Protected Species/ Suitable habitat	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
	NONE FOUND.		

NOTES AND RECOMMENDATIONS:

- Project activities in sub-section 2A understood to involve veg clearance, gamma scanning, and surface/subsurface soil sampling.
- Survey boundary shown on attached figure, defined by edges of pavement except along northwest boundary where it is marked by 3 stakes/flagging.
- No special-status species found within subsection 2A.
- Centaurea solstitialis (invasive weed) occurs in 2 small locations but J. Anderson and Leah Speranza cut/uprooted to prevent from going to seed. Leah will check before activities to see if more has come up and ensure has not gone to seed. Implementation of GEN-3 not considered necessary in this case.
- All vegetation can be cut within surveyed boundaries.
- Will need to verify if site is within 300ft of riparian or aquatic habitat.
- Please remind veg clearance crews of AMM GEN-3 before they arrive at ~~site~~ to SSFL site.

Biologist Signature: [signature] Date: JULY 19, 2010

HGL Field Supervisor Signature: T. Tut[signature] Date: July 19, 2010

Date: 7/26/10

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5C - 6

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat, and nesting bird survey	J. Anderson	Mar 1, 2010

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
	None found		

NOTES AND RECOMMENDATIONS:

Biologist Signature: [signature] Date: 7/26/10

HGL Field Supervisor Signature: [signature] Date: 7/26/10

Date: 7/26/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5C-7

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	Mar 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant	Y*	HGL-SMP pg G46-G47
1	Coast live oaks	N	HGL-SMP Veg management protocols for coast live oaks.

NOTES AND RECOMMENDATIONS:

~~SS Tarplant~~ ~~San PO~~

28 Santa Susana tarplant in and around sandstone rock outcrops. Some poison oak.

* Some SS Tarplant on rocks not flagged

Biologist Signature: _____ Date: 7/26/10

HGL Field Supervisor Signature: Leah Sprague Date: 7/26/10

Date: JULY 19, 2010

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

HSA ~~BRRA~~ - 5C

Work Area: Sub-section 3A (Portions later renamed Section 8 and 7)

SURVEYS PERFORMED

#	Survey Type	Biologist	Expiration
	Special-status species and Suitable habitat survey	J. Anderson	Onset of 2010/2011 rainy season, typically beginning in Nov, 2010.

SURVEY FINDINGS

#	Protected Species/ Suitable habitat	Flagged (Y/N) (demarcated)	Applicable Avoidance and Minimization Measures
○	Santa Susana tarplant (5 individuals)	Y	GS-5; VC-10; SS-1
○	Potentially suitable habitat for vernal pool branchiopods	Y	GS-3; GEN-10
○	Upland habitat for red-legged frog	N	GEN-11; VC-5; GS-4 ([redacted])

NOTES AND RECOMMENDATIONS:

- Project activities in sub-section 3A understood to involve vegetation clearance, gamma scanning, and surface/subsurface soil sampling.
- Survey boundary shown on attached figure – defined by edges of pavement, chain link fencing, or along portion of western boundary the bottom of slope/edge of "flat" area.
- Five individual Santa Susana tarplants flagged w/ pink flagging. An Envicom biologist shall be present during veg clearance/gamma scanning adjacent to or over this species. The Santa Susana tarplant shall not be cut. See above applicable Amms.
- Potentially suitable habitat for vernal pool branchiopods (fairy shrimp) located in shallow depression that fills seasonally with water. Area has been demarcated w/ stakes flagging at 4 corners. Gamma scanning within this area shall be done by stroller or by hand. An Envicom biologist shall be present during veg clearance or gamma scanning within this area. Soil sampling in this area should be avoided. If can't be avoid discuss w/ Envicom biologist before actual
- Portions of area appear to be within 300 ft. of aquatic or riparian habitats which are upland habitat for potentially occurring red-legged frog. This will be verified. See applicable Amms GEN-11; VC-5; GS-4.

Biologist Signature: [signature] Date: JULY 19, 2010

HGL Field Supervisor Signature: [signature] Date: July 19, 2010

Please remind vegetation clearance crews of Amm GEN-3 before beginning [illegible] project site.

Date: 8/13/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5B-9

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species survey, suitable habitat, and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant	Y	VC-10; GS-5; HSC-SMP pgs 646-647

NOTES AND RECOMMENDATIONS:

5B-9 extends into ~~Area~~ HSA-7 as well.

One Santa Susana tarplant on flat terrain in southeast corner of section 9, and two Santa Susana tarplants on rock outcrops in northeast portion of section.

Biologist Signature: _____ Date: 8/13/10

HGL Field Supervisor Signature: Leah Spiro Date: 8/17/10

Date: 8/13/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5B-10

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	Mar 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Braunton's milkvetch (2)	Y	VC-3; HGL-SMP Protective Measures ~~GS-4~~ GS-1; GS-2. pgs G-4 to G-5.
1	Santa Susana tarplant (5)	Y	GS-5, VC-10 HGL-SMP pgs G46-47
1	Coast live oaks	N	HGL-SMP Vegetation Management Protocols related to native oak trees

NOTES AND RECOMMENDATIONS:

- Several coast live oaks. Only understory branches less than 20% diameter of main trunk can be cut.

Biologist Signature: [signature] Date: 8/13/10

HGL Field Supervisor Signature: [signature] Date: 8/17/10

Date: 8/13/10

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5B-11

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	T. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	~~NEST~~ Coast live oaks	N	HGL-SMP Vegetation Management Protocols related to native oak trees

NOTES AND RECOMMENDATIONS:

Several coast live oaks. Only understory branches less than 20% diameter of main trunk can be cut

Biologist Signature: _____ Date: 8/13/10

HGL Field Supervisor Signature: Leah Spiegel Date: 8/17/10

Date: 8/13/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SB-12

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat, nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Potential Least Bell's Vireo habitat	Y	GEN-9;
1	Coast live oaks	N	Vegetation management Protocols HGL-SMP related to native oak trees

NOTES AND RECOMMENDATIONS:

All Activities within area identified as potential least Bell's vireo habitat must be delayed until October 1, 2010. ~~Area~~ has been Boundary of this area includes all necessary buffers from riparian ~~habitat~~ least Bell's vireo habitat, based on discussion w Mark Elvin of USFWS. Boundary has been staked and flagged.

In Areas within Section 12 outside of the potential least Bell's vireo habitat ~~[illegible]~~ use of the ERGS is OK, where feasible. ~~[illegible]~~

- Several Coast live oaks. Only understory branches less than 20% diameter of main trunk can be cut.

Biologist Signature: [signature] Date: 8/13/10

HGL Field Supervisor Signature: Leah Speyer Date: 8/17/10

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Survey Section (SS): SS-12	**Area:** 5A, 5B
Biologist: Scott Werner	**Date:** 9/10/2010
Survey Type: *amendment to original clearance report dated 8/13/2010 by Jim Anderson*	**Expiration:** February 15, 2011

SURVEY FINDINGS

Survey Section	Protected Resources	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-12	Suitable habitat for California Special Concern Species	Y	Monitor required during mechanized vegetation removal activities or off-road vehicle use

NOTES AND RECOMMENDATIONS:

Per our recent conversations about the informal agreement with the California Department of Fish and Game to protect State-listed species, this report describes potentially occurring State-listed species with SS-12. SS-12 contains suitable habitat for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*).

Suitable habitat for coast horned lizard consists of loose soils with shrubs or trees for cover, and rocky outcrops for basking.

Silvery legless lizard habitat consists of areas with loose soil, moisture, warmth, and plant cover with a leaf litter layer.

San Diego desert woodrat can be found in scrub and chaparral areas with rock outcrops in which to build their middens and yucca or cactus to obtain food moisture. This species' range overlaps with the big-eared woodrat, which has been documented onsite.

Coast patch-nosed snake habitat consists of grasslands, scrub, or chaparral vegetation.

Much of the suitable habitat for these species occurs in the scrubby least Bell's vireo habitat area, which will require monitoring again when it is cleared after October 1.

Biologist Signature: _____ Date: 9/10/10

HGL Field Supervisor Signature: Leah Spiegel Date: 9-22-10

Date: 8/26/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SB-13

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat, and nesting birds	J. Anderson	MAR 11, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Protocols in HMP-SMP relevant to native oak trees.

NOTES AND RECOMMENDATIONS:

Coast live oaks - ~~[illegible]~~ pruning of lower branches <25% girth of main stem only.

Monitoring biologist shall supervise vegetation clearance, gamma scanning using ATVs or mule and other project activities involving light or heavy off-road vehicle use due to suitable habitats for coast horned lizard, silvery legless lizard and San Diego desert woodrat (Species of Special Concern).

Biologist Signature: _____ Date: 8/31/10

HGL Field Supervisor Signature: _____ Date: 9-1-10

Date: 8/13/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5B-14 (portion within HSA-5B and HSA-7 only)

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant (1)	Y	GS-5, VC-10, [redacted] HGL-SMP pgs 6-46-47
1	Coast live oaks	N	HGL-SMP Vegetation Management Photocalls related to native oaks trees

NOTES AND RECOMMENDATIONS:

- Portions of ~~SB~~ Section 14 surveyed within HSA-5B and HSA-7. Portion of Section 14 within HSA-5A not surveyed.
- Several coast live oaks. Only understory branches less than 20% diameter of main trunk can be cut.

Biologist Signature: _____ Date: 8/13/10

HGL Field Supervisor Signature: Leah Spurgin Date: 8/14/10

Date: 17 Aug 2010 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: HSA-5A-15, 16 and 17 (part)
HSA-5B-14 (part)

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1			MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant	Y	Do not cut, scan over top
	400 ~~[illegible]~~ flagged		
1	Dudley ap. 6 flagged	Y	Do not cut, scan over top

NOTES AND RECOMMENDATIONS:

The following areas, within HSA-5A were not completed during this survey:

- No Area's south of main road were done
- Not Done SS-18
- Not Done Portions of SS17 in NE and SE, and vertical wall at far west as shown in red on attached map.

This survey included the following areas:

- HSA-5A-15
- HSA-5A-16
- HSA-5A-17 (except two small portions of 17 in northeast and southeast corners)
- HSA-5B-14 (portion of 5B-14 within HSA-5A boundary)

Biologist Signature: [signature] Date: 17 Aug 2010

HGL Field Supervisor Signature: [signature] Date: 8-17-2010

Date: 8/23/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: HSA - 5A - 17 (part)

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat, and nesting birds.	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources (≥130+)	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant	Y/~~N~~	VC-10; GS-5
1	coast live oaks	N	Vegetation Management Protocols in HGC-SMP relevant to native oak trees.
	~~A~~ In high density areas of tarplants, not all tarplants flagged.		

NOTES AND RECOMMENDATIONS:

- Remaining parts of 5A-17 surveyed that were not completed on August 17. Included northeastern and southeastern parts of the section as well as vertical wall in far west.
- Monitoring biologist shall be present during vegetation clearance / gamma scanning or other project activities within 25ft of the Santa Susana tarplant.
- Coast live oaks - ~~XXXXX~~ pruning of live branches ≤20% girth of main stem permitted only.
- Some poison oak in section

Biologist Signature: _____ Date: 8/31/10

HGL Field Supervisor Signature: _____ Date: 9-1-10

Date: 8/23/10

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5A-18

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tarplant (~25)	Y	VC-10; GS-5;
1	Coast live oaks	N	Vegetation Management Protocols in HGL-SMP relevant to oak trees.

NOTES AND RECOMMENDATIONS:

- Monitoring biologist shall be present during veg clearance / gamma scanning or other project activities within 25 ft. of this ~~species~~ Santa Susana tarplant. The tarplant shall not be cut. See above AMMs.
- Coast live oaks - pruning of lower branches <20% girth of main stem permitted only.
- Monitoring biologist shall supervise vegetation clearance, gamma scanning using ATVs or mule and other project activities involving light or heavy off-road vehicle use due to suitable habitats for coast horned lizard, silvery legless lizard, and San Diego desert woodrat (Species of Special Concern). Some poison oak in section.

Biologist Signature: [signature] Date: 8/31/10

HGL Field Supervisor Signature: Noah Sayre Date: 9-1-10

Date: 8/26/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SA-19

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Protocols HGL-SMP
1	Santa Susana tarplant (~12)	N	VC-10; GS-5
1	Dudleya (~20)	Y	VC-9; Avoid impacts during all activities

NOTES AND RECOMMENDATIONS:

- Dudleya/Santa Susana tarplant - Monitoring biologist shall be present during vegetation clearance/gamma ~~and~~ scanning and other project activities within 25 ft of these species.
- Monitoring biologist shall ~~be present with during~~ supervise vegetation clearance, gamma scanning using ERGS or mule and other project activities involving light or heavy off-road vehicle use due to suitable habitat for coast horned lizard, silvery legless lizard, San Diego desert woodrat, and coast patch nosed snake (species of special concern).
- Dudleya - Some individuals within polygons on field map may not have been flagged. Avoid impacting species.
- Coast live oaks - pruning of lower branches <20% girth of main stem permitted only.

Notes
93
93
93
93
93
93

- Beehive location shown on field map.
- Some poison oak within section.

Biologist Signature: [signature] Date: 8/31/10

HGL Field Supervisor Signature: [signature] Date: 9-1-10

Date: 8/26/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5A-20

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status, sensitive, suitable habitat, and nesting birds	J. Anderson	Mar 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Protocols in Hist-SMP relevant to native oak trees

NOTES AND RECOMMENDATIONS:

Coast live oaks - pruning of lower branches <2cm> girth of main stem only.

- Monitoring biologist shall supervise vegetation clearance, gamma scanning using ERGs or mule and other project activities involving light or heavy all-road vehicle use due to suitable habitats for coast horned lizard, silvery legless lizard, San Diego desert woodrat and coast patch nosed snake (Species of Special Concern)

Photos
925
926
927
928
929

Poison oak in section.

Biologist Signature: _____ Date: 8/31/10

HGL Field Supervisor Signature: _____ Date: 9-1-10

Date: 8/23/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5A - 21

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Protocols related to native oak trees in HGL-SMP.

NOTES AND RECOMMENDATIONS:

- No special-status species found in section.

Coast live oaks - pruning of lower branches <20% girth of main stem ~~[illegible]~~ only.

- Monitoring biologist shall supervise vegetation clearance, gamma scanning using ERGS or mule and other project activities involving light or heavy off-road vehicle use due to suitable habitats for Coast horned lizard, silvery legless lizard and San Diego desert woodrat (species of Special Concern).

Biologist Signature: [signature] Date: 8/31/10

HGL Field Supervisor Signature: Leah Sperga Date: 9-1-10

Date: 8/23/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 5A – 22

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	T. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Protocols in HGL-SMP relevant to native oak trees.

NOTES AND RECOMMENDATIONS:

1. Coast live oaks – pruning of lower branches ≤20% girth at main stem only.

2. Monitoring biologist shall supervise vegetation clearance, gamma scanning using ERGS & mule and other project activities involving light or heavy off-road vehicle use due to suitable habitats for coast horned lizard, Silvery legless lizard, and San Diego desert woodrat (3 species of Special Concern).

Biologist Signature: _____ Date: 8/23/10

HGL Field Supervisor Signature: _____ Date: 9-1-10

Date: 8/23/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SA-23

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Protocols in HGL-SMP relevant to native oak trees.

NOTES AND RECOMMENDATIONS:

- Coast live oaks - maintain pruning of lower branches <20% girth of main stem only.
- Monitoring biologist shall supervise vegetation clearance, gramma scanning using ERGS or mule and other diverse activities involving light or heavy off-road vehicle use due to suitable habitats for coast horned lizard, silvery legless lizard and San Diego desert woodrat (species of special concern).

Biologist Signature: _____ Date: 8/31/10

HGL Field Supervisor Signature: _____ Date: 9-1-10

Date: 9/20/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SD-51

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species and suitable habitat	J. Anderson	Feb 15, 2010

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Braunton's milkvetch	Y*	VC-3; GEN4; brush cutting ~~manual~~ tools only.
1	Malibu baccharis	Y*	Avoid impacts / minimize impacts
1	Coast live oak	N	#GL - Simp. Veg Management Protocols pertaining to trimming of native trees / County tree ordinance
1	California black walnut	N	
1	Blue elderberry	N	Protect per Native American request - trim under-story branches only.
*	~~Western Sage~~	~~Y*~~	
1	Coast horned lizard	—	Monitor present during veg clearing & grubbing with scanning with or EIGS or Mitig.
	Section		

* Only ~~part~~ of plants flagged, ~~not all plants~~

NOTES AND RECOMMENDATIONS:

- Because of higher density of Braunton's milkvetch and Malibu Baccharis on upper slopes and ridge, two biological monitors may be needed during vegetation cutting in certain area (See approximate boundary on map). Monitors will need to work closely w/ crews to avoid impacts
- One monitor will be needed otherwise during veg cutting and grading scanning and other project activities due to above listed resources; b/c not all milkvetch / baccharis have been flagged; and potential for occurrence of protected State species of Concern Coast horned lizard and coast patch nose snake and perhaps Silvery legless lizard.
- Coast horned lizard captured in SS-113 near section and moved outside area TV
- Braunton's milkvetch common on upper slopes & ridge and occasional to sparse within woodland and lower slopes. Malibu baccharis appears restricted to chamise chaparral on upper slopes & ridge.
- Centaurea calcitrapa near road west end of section - Amin GEN-3 required. Is an invasive species.
- Poison oak common in coast live oak woodland on mid/lower north-facing slopes.

Biologist Signature: _____ Date: 9/21/10

HGL Field Supervisor Signature: _____ Date: 9-21-10

- Both Braunton milkvetch & Malibu Baccharis can be difficult to detect b/c of characteristics and dry condition
- California black walnut common in coast live oak woodland. Trim per County ordinance guidelines.

Date: 9/20/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: 50 - 58

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species and suitable habitat	J. Anderson	Feb 15, 2010

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Braunton's milkvetch	Y*	GEN-4, VC-3; brush cutting hand tools only.
1	Malibu baccharis	Y*	Avoid/minimize impacts to this species
1	Coast live oaks	N	HGL-SMP Vegetation Management
1	Calif. black walnut	N	Protocols pertaining to trimming native trees.
1	Blue elderberry	N	Protect Native American request
1	White sage	Y*	Protect Native American request;
1	Coast horned lizard	—	Monitor present during veg clearance; gamma scanning with EKOS/mule.
1	Santa Susana tarplant	Y*	VC-10 · GS-5

* Only a fraction of plants flagged.

NOTES AND RECOMMENDATIONS:

- Higher density of Braunton's milkvetch and Malibu baccharis on lower slopes and ridge; Two biological monitors may be needed during vegetation cutting in these areas (see approximate boundary on map). Monitors will need to work closely with crews to avoid impacts
- Otherwise one monitor needed during veg cutting and gamma scanning and other project activities due to above listed resources, because not all milkvetch/baccharis have been flagged; and potential for occurrence of protected state species of concern Coast horned lizard and Coast patch nosed snake, as well as perhaps silvery legless lizard.
- Coast horned lizard captured in SS-113 near section and moved outside Area IV.
- Braunton's milkvetch common on lower slopes and ridge in eastern portion of section, but otherwise sparse to absent. Malibu Baccharis common in chamise chaparral ~~otherwise~~ to coast sage scrub, otherwise absent.
- Poison oak common within coast live oak woodland on lower/mid slopes.
- Tarplants in eastern part of section near and on sandstone outcrops

Biologist Signature: _____ Date: 9/20/10

HGL Field Supervisor Signature: _____ Date: 9-21-10

- Both Braunton's milkvetch and Malibu baccharis can be difficult to detect b/c of characteristics and dry conditions.

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Survey Section (SS): SS-50 (within 5D), 53, 54, 55 (entire), 109, 110, 111, 112 (within 5D)	**Area:** 5D, 8 (for SS-55)
Biologist: Scott Werner	**Date:** 9/17/2010
Survey Type: Special-status species and suitable habitats, nesting birds	**Expiration:** February 15, 2011

SURVEY FINDINGS

Survey Section	Protected Resources	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-53	None	N	n/a GEN-3
SS-109	None	N	n/a
SS-110	None	N	n/a
SS-111	None	N	n/a
SS-112 (5D)	None	N	n/a
SS-54	None	N	n/a
SS-55	Protected Elderberry trees	N	Pg E-1: adhere to Ventura Co. Trimming Guidelines, additional protections possible per Native American guidelines

NOTES AND RECOMMENDATIONS:

SS-53, SS-109, SS-110, SS-111, and SS-112 consist of highly disturbed roads, roadsides, or parking lots and support no sensitive biological resources. SS-53 is a road shoulder with nonnative weedy vegetative cover. SS-109 is a paved parking lot. SS-110 and SS-111 are old overgrown dirt roads. SS-112 is a maintained dirt road.

SS-54 consists of approximately 60% paved ground or buildings. The remaining 40% is recently mowed field covered by mostly nonnative vegetation dominated by field mustard (*Hirschfeldia incana*), bur clover (*Medicago* sp.), and grasses. Wildlife seen in the area included Say's phoebe (*Sayornis saya*), loggerhead shrike (*Lanius ludovicianus*), rock wren (*Salpinctes obsoletus*), and California ground squirrel (*Spermophilus beecheyi*) with many associated burrows. AMM required. ~~See base~~. GEN-3

SS-55 has similar weedy vegetation as ~~SS-54 with a similar~~ dominant species composition as described above. ~~Invasive yellow~~ star thistle (*Centaurea solstitialis*), ~~k~~calote (*Centaurea melitensis*), purple star-thistle (*Centaurea calcitrapa*), ~~and~~ milk thistle ~~(Silybum marianum)~~ are established on the plot. Two blue ~~elderberries (Sambucus mexicana)~~ located on the western portion of the Survey Section are protected under the Ventura County Tree Removal Ordinance and should not be removed. Two southern Pacific rattlesnakes (*Crotalus viridis helleri*) were located in a culvert at the northeastern corner of the Survey Section but only 1 snake was successfully removed. Other wildlife seen in the area included red-tailed hawk (*Buteo jamaicensis*), loggerhead shrike (*Lanius ludovicianus*), oak titmouse (*Baeolophus inornatus*), rock wren (*Salpinctes obsoletus*), California towhee (*Pipilo crissalis*), song sparrow (*Melospiza melodia*), lesser goldfinch (*Spinus psaltria*), and California ground squirrel (*Spermophilus beecheyi*) with many associated burrows. An old red-winged blackbird (*Agelaius phoeniceus*) nest was observed in a mustard patch.

SS-56 also contains Centaurea solstitialis. AMM GEN-3 required also.

The loggerhead shrike seen on SS-54 and SS-55 did not exhibit any nesting behavior. Nesting loggerhead shrikes are a California Species of Special Concern (and are protected under the California Department of Fish and Game Code and the Federal Migratory Bird Treaty Act, like most other native birds found at SSFL).

Biological monitoring of project activities in these areas is currently not required due to the lack of special-status species or suitable habitats found. If work is to take place after February 15, 2010, additional surveys will be required to due the potential for nesting birds and special-status plant species associated with the spring growing season.

Biologist Signature: _____ Date: 9/17/2010

HGL Field Supervisor Signature: _____ Date: 9-20-10

Date: 7/28/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Portion of SD-55

Terrain

Work Area: ~~Equipment~~ Test Area

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species,	J. Anderson	MAR 1, 2011
	suitable habitat and		or following
	nesting birds		arrival that burns
			the testing area,
			whichever comes
			first.

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Critical Habitat ID	N	~~Prior to survey, prior~~ None required
	for Brauntons		
	milkvetch		
1	Potential coastal	N	GEN-8 (implemented earlier in 2010)
	California gnatcatcher		Absence ~~verified~~ confirmed by
	habitat		protocol surveys.

NOTES AND RECOMMENDATIONS: no known occurrence of

- Test area is within "Critical Habitat Unit 1D for Brauntons milkvetch". No Brauntons milkvetch or other special-status / sensitive biological resources were found in test area boundaries. All vegetation may be cut to 6-18".

- Hollow-Star Thistle (Centaurea solstitialis) occurs in testing area. This species is severely invasive and measure GEN-3 shall be implemented to prevent its spread to other areas within SSFL and beyond. Following work within the area, project-related vehicles and equipment shall be cleaned before entering other natural habitat areas to prevent the potential spread of seeds.

- Rattlesnake found near concrete debris in eastern portion of site - not removed.

- Portion of Test area within area identified as potential habitat for coastal Calif gnatcatchers. Per Absence of this species was verified by protocol surveys conducted in 2010.

Biologist Signature: _____ Date: 7/28/10

HGL Field Supervisor Signature: Noah Sousa Date: 7/28/10

Date: 8/9/10 HSA-5D-56 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: HSA-5D Geophysical Test Strips and Surrounding Area

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species suitable habitat and nesting birds	T. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Potential coastal California gnatcatcher habitat	N	GEN-8 (Implemented earlier in 2010). Absence confirmed by protocol surveys.
1	Critical habitat ID for Braunton's milkvetch	N	None required / ~~and~~ no Braunton's milkvetch observed in survey area

NOTES AND RECOMMENDATIONS:

- Purpose of survey to clear vicinity of geophysical test strips as well as areas of potential access to test strips. However, surrounding area surveyed as well. See attached map for survey extent
- ~~Potential coastal California gnatcatcher habitat in survey area, but not in recent vicinity of~~
- Yellow-star thistle (Centaurea solstitialis) occurs within survey area. Because of the presence of this invasive species, Gamma scanning and vegetation clearance crews shall implement GEN-3. Geophysical survey crews do not need to implement GEN-3 provided vehicle access through vegetated areas is via the road along the western boundary of survey area as this would avoid contact with the species

Biologist Signature: _____ Date: 8/9/10

HGL Field Supervisor Signature: _____ Date: 8/13/10

Date: 8/9/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: HSA - 5D Geophysical Test Strips and Surrounding Area

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Potential coastal California gnatcatcher habitat	N	GEN-5 (Implemented earlier in 2010). Absence confirmed by protocol surveys.
1	Critical habitat ID for Braunton's milkvetch	N	None required / no Braunton's milkvetch observed in survey area

NOTES AND RECOMMENDATIONS:

Purpose of survey to clear vicinity of geophysical test strips as well as areas of potential access to test strips. However, surrounding area surveyed as well. See attached map for survey extent.

~~[illegible]~~

- Yellow star thistle (Centaurea solstitialis) occurs within survey area. Because of the presence of this invasive species, gamma scanning and vegetation clearance crews shall implement GEN-3. Geophysical survey crews do not need to implement GEN-3 provided vehicle access through vegetated areas is via the road along the western boundary of survey area as this would avoid contact with the species.

Biologist Signature: [signature] Date: 8/9/10

HGL Field Supervisor Signature: [signature] Date: 8/13/10

Date: 7/30/10

Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: FUEL CLEARANCE AROUND CORRAL NEAR B 204

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat, nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Dudleya sp. (3)	Y	VC-9
1	Santa Susana Tarplant (3)	Y	VC-10;
1	Coast Live Oaks	N	HGL-SMP Veg Management Protocols
	[illegible] coastal	N	[illegible] Absence [illegible] potential [illegible]
	[illegible]		

NOTES AND RECOMMENDATIONS:

Site is currently targeted for vegetation cutting - (fuel clearance) only. Above Annex listed for vegetation clearance, additional Annex required if gamma scanning or other activities conducted in area. However, area is outside Area IV Radiological Study project area.

* 3 tarplants on road outer rows not flagged - difficult to access.

Portion of [illegible] area identified as potential habitat for coastal Calif gnatcatcher. Absence of this species was later verified [illegible]

Biologist Signature: _____ Date: 7/30/10

HGL Field Supervisor Signature: _____ Date: 7/30/10

Date: 7/28/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: ~~Equipment~~ Terrain Test Area

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	[illegible] status species, [illegible] habitat and [illegible] birds	J. Anderson	[illegible]
			[illegible]
			[illegible]
			[illegible]
			whichever [illegible]

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Critical Habitat ID for Braunton's milkvetch	N	~~[illegible]~~ None required
1	Potential coastal Calif gnatcatcher habitat	N	GEW-8 (implemented earlier in 2010) Absense confirmed by protocol surveys.

NOTES AND RECOMMENDATIONS:

- Test area is within Critical Habitat Unit ID for Braunton's milkvetch. No [illegible] milkvetch [illegible] status / sensitive biological resources [illegible] found [illegible] boundaries. All vegetation [illegible] to 6-15"
- [illegible] Star Thistle (Centaurea solstitialis) occurs in testing area. This species is severely invasive and [illegible] GEN-2 should be implemented to prevent its spread to other areas within SSFL and beyond [illegible] work within the area. Project related vehicles and equipment shall be cleaned before entering other natural habitat areas to prevent the potential spread of seeds.
- Rattlesnake found near concrete debris in eastern portion of site - not removed.
- Portion of test area within area identified as potential habitat for coastal California gnatcatcher. Absense of this species has been verified by protocol surveys earlier in 2010.

Biologist Signature: [signature] Date: 7/28/10

HGL Field Supervisor Signature: _____ Date: _____

Date: 7/30/10 Sheet 1 of 1

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: FUEL CLEARANCE AROUND CORRAL NEAR B 204

SURVEYS PERFORMED

ID	Survey Type	Biologist	Expiration
1	Special-Status species, suitable habitat, nesting birds	J. Anderson	MAR 1, 2011

SURVEY FINDINGS

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Dudleya sp. (3)	Y	VC-9
1	Santa Susana Tarplant (2)	Y*	VC-10;
1	Coast Live Oaks	N	HGL-SMP Veg Management Protocols for oak trees

NOTES AND RECOMMENDATIONS:

Site is currently targeted for vegetation cutting - (fuel clearance) only. Above Amms listed for vegetation clearance, additional Amms required if gamma scanning or other activities conducted in area. However, area is outside Area IV radiological study project area.

* 3 tarplants on rock outcrop not flagged - difficult to access.

Biologist Signature: [signature] Date: 7/30/10

HGL Field Supervisor Signature: [signature] Date: 7/30/10

ATTACHMENT 2
BIOLOGICAL MONITORING FORMS

Date: 7/22/10 Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	9am-12:45pm	SC-8	☑VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	weed whippers, vehicle mower, skid loader
2	10am-12pm	SC-4	☑VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	weed whippers
3	10am-12pm	SC-5	☑VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	weed whippers, vehicle mower, skid loader
			☐VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	
			☐VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Santa Susana tarplant (3)	SC-8	Avoidance. Given wide berth	No impacts.
1	Potential suitable habitat for fairy shrimp	SC-8	Avoidance. Given wide berth.	No impacts.

NOTES AND RECOMMENDATIONS:

Santa Susana tarplants (3) at SC-8 avoided. No vegetation cutting considered necessary within vicinity of tarplants to prepare for gamma scanning.

Potential habitat for Riverside and vernal pool fairy Shrimp avoided as well. No vegetation cutting necessary within suitable habitat or vicinity to prepare for gamma scanning

No protected resources encountered during vegetation cutting at SC-4 or SC-5.

Permission requested to cut some shrubs to less than 6 inches in height to allow fork-lift mounted scanner to pass ~~without~~ reduced risk of punctured tires. Granted provided cutting is done only to minimum extent necessary.

Biologist Signature: _____ Date: 7/23/10

HGL Field Supervisor Signature: Leah Sperry Date: 7/23/10

Date: 7/23/10

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	12:00pm-[illegible]pm	5C-4	☑VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	Weed wackers; vehicle mower
2	10m - 20m	5C-1	☑VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	Weed wackers
			☐VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	
			☐VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	
			☐VC ☐GS ☐GP ☐SS ☐MWS ☐SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Dudleya sp (2)	5C-4	Avoided VG-9	No impacts
1	Coast live oaks	5C-4	Vegetation Management Protocols HGL-SMP	No impacts per Ventura County Tree Protection ordinance. Two (2) seedlings cut to 6-18 in.
2	None encountered	5C-1		

NOTES AND RECOMMENDATIONS:

Two coast live oak seedlings cut to 6-18 inches; saplings and adult trees only understory branches less than 2½" diameter @ main trunk cut, as necessary to allow easier access beneath canopy for gamma scanning.

Biologist Signature: [signature] Date: 7/23/10

HGL Field Supervisor Signature: Leah Spenger Date: 7/23/10

Date: 7/26/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	8am - 2pm	SC - 1	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Weed whipper; vehicle mounted
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian, dry eph. drainages	SC-1	Riparian Protection Measures	Some understory; lower branches of shrubs, trees removed-cut

NOTES AND RECOMMENDATIONS:

Native shrubs / trees in and adjacent to drainages only understory and/or lateral branches cut and dead wood removed. Non-native herb cover in drainages cut to ~6-18". ~~Native trees/shrubs~~ Areas outside drainages cut to 6-18".

Biologist Signature: _____ Date: 7/26/10

HGL Field Supervisor Signature: Leah Spiegel Date: 7/26/10

Date: 7/27/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800 - 930	SC-1	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Weed whippers, chipper
2	930 - 1030	SC-8	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Stroller
3	1030 - ~~1200~~ 200	SC-1	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Weed whippers, chipper
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian-dry ephemeral creek	SC-1	Riparian Habitat Amms HGL-SMP pgs N-1 & N-3	Lower branches of ~~riparian~~ native shrubs / trees cut to allow
2	Potential suitable habitat for vernal pool branchiopods	SC-8	~~GS-3~~ GS-3	No impact
				~~No impact~~
2	Santa Susana tarplant	SC-8	GS-5	No impact

access of gamma scanner

NOTES AND RECOMMENDATIONS:

Area of seasonal pooling of water in section 8 scanned with stroller. Only one person entered area to minimize soil disturbance. ~~Area~~ Area is thoroughly dry and, therefore, scanning conducted during dry phase. No vegetation was cut within this area.

Also monitored vegetation cutting in section 1. ~~Shrubs~~ Native shrubs & trees within and adjacent to creek were thinned only, with understory and lateral branches cut and canopy retained.

Biologist Signature: _____ Date: 7/27/10

HGL Field Supervisor Signature: Veg clearance Leah Sparza Date: 7/27/10

HGL Field Sup. Gamma Scanning : _____ Date: 8.2.10

Date: 7/28/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	900-[illegible]	5C-7	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Weed whackers
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Santa Susana tarplant	5C-7	[illegible] GEN-2	No impacts
[illegible]	[illegible] (1)	5C-7	VC-3	[illegible]

NOTES AND RECOMMENDATIONS:

[illegible] EEP for entire vegetation clearance [illegible] [illegible] of Santa Susana tarplant [illegible] [illegible] has not [illegible] for protection.

[illegible]

[illegible] Astrobra [illegible] [illegible] during monitoring, [illegible] during bio survey.

Biologist Signature: [signature] Date: 7/28/10

HGL Field Supervisor Signature: _____ Date: _____

Date: 7/29/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	2[illegible]	SC 7	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Mule
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Santa Susana tarplant	SC-7	GS-1, GS-2, GS-5	No impact
1	Potential habitat for Vernal pool Invertebrates	SC-7	NONE	Minor soil disturbance. "Take" unlikely but not suspected.

NOTES AND RECOMMENDATIONS:

The mule was allowed to pass through area demarcated as potential suitable habitat for Vernal pool branchiopods without discussion with monitoring biologist. Resulted in minor amount of soil disturbance within a small portion of the demarcated area. This occurred when the pool was in the dry phase.

This was unsatisfactory implementation of Avoidance / Minimization measure GS-3 "Vehicles shall only be conducted on dirt roads and only activities that do not disturb rocks or soil structure will be permitted." Use of mule in this area is considered to have potential to have effects due to disturbance of soil.

Common scouring personnel were reminded to consult with biologist prior to entering or conducting activities within demarcated areas as unnecessary disturbance and not biologist [illegible] activities in these areas.

It was recommended that [illegible] vernal pool [illegible]

Biologist Signature: _____ Date: 8/2/10

HGL Field Supervisor Signature: _____ Date: 8.2.10

Date: 7/29/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	200-300	5C-7	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Mule
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Santa Susana tarplant	5C-7	GS-1; GS-2; GS-5	No impact
1	Potential habitat for vernal pool branchiopods	5C-7	NONE	Minor soil disturbance. "Take" Unknown, but not suspected.

NOTES AND RECOMMENDATIONS:

- The mule was allowed to pass through area demarcated as potential suitable habitat for vernal pool branchiopods without discussion with monitoring biologist. Resulted in minor amount of soil disturbance within a small portion of the demarcated area. This occured when the pool was in the dry phase.
- This was unsatisfactory implementation of Avoidance/Minimization Measure GS-3: "surveys shall only be conducted on foot, and only activities that do not disturb biota or soil structure will be permitted." Use of mule in this area is considered to have potential negative effects due to disturbance of soil.
- Gamma scanning personnel were reminded to consult with biologist prior to entering or conducting activities within demarcated areas and that biologist must be present during any activities in these areas.
- If take occured would not be a violation based on USFWS incidental take permit.
- As protocol surveys have not been conducted for vernal pool branchiopods, the presence/absence of fairy shrimp is unknown. If encroachment resulted in take of eggs/cysts is unknown, but due to minimal disturbance is not expected.

Biologist Signature: _____ Date: 8/2/10

HGL Field Supervisor Signature: _____ Date: 8.2.10

Date: 7/30/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	[illegible]	5C-7	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Mule
2	1145-130	[illegible]	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Need whippers, chain saws, chipper
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Santa Susana Tarplant	5C-7	GS-1; GS-2; GS-5	No impact
2	Santa Susana tarplant	Fuelmod/ Corral	VC-10	No impact
2	Dudleya sp.	Fuelmod/ Corral	VC-7	No impact
2	[illegible] oaks	Fuelmod/ Corral	[illegible]	[illegible]

NOTES AND RECOMMENDATIONS:

Fuel modification around mule/horse corral near Building 204. This area is outside Area IV and not ~~[illegible]~~ to planned to be gamma scanned as a part of the Area IV Radiological Project.

Biologist Signature: [signature] Date: 7/30/10

HGL Field Supervisor Signature: [signature] Date: 8.2.10

Date: 8/2/10 Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	1015 - [illegible]	5C-1	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Ergs (Fork lift mounted scanner)
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Ephemeral drainage/ riparian veg.	5C-1	Avoidance Buffer from banks.	No impact
			Riparian protection measures HGL-SMP	
			pgs N-1 to N-3	

NOTES AND RECOMMENDATIONS:

Ergs used for gamma scanning in areas of 5C-1 outside of drainages and riparian vegetation. Drainages given 5 ft buffer by ergs when no riparian veg present adjacent to drainage - or wider if necessary. Drainages and riparian veg will be scanned w/ shelter/cart and hand scanners at later time.

Biologist Signature: [signature] Date: 8/2/10

HGL Field Supervisor Signature: [signature] Date: 8.2.10

Date: 8/3/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	900-1100	SC-1	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Tires Fork-lift mounted
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Ephemeral drainages riparian vegetat.	SC-1	Avoidance. Buffer from drainage and riparian. WPCP-SMP Riparian Protection Measures	No impacts

NOTES AND RECOMMENDATIONS:

Biologist Signature: _____ Date: 8/3/10

HGL Field Supervisor Signature: _____ Date: 8.3.10

Date: 8/4/10 Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	845-1100	5C-1	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	CRGS Fork-lift mounted
2	1145-115	5C-7	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	FRGS fork lift mount / Scanner
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Scanner
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	[illegible]	5C-1	Avoidance [illegible]	No impact
2	[illegible] Susana [illegible]	5C-7	GS-5	No impact
2	[illegible] milkvetch	5C-7	Avoidance	No impact

NOTES AND RECOMMENDATIONS:

Some soil disturbance at 5C-7 due to use of FRGS fork-lift [illegible] slopes. [illegible] to find [illegible] of use of [illegible] to minimize soil disturbance when [illegible] and uprooting of vegetation [illegible]

Found FRGS fork lift mounted scanner could pass over (straddle) [illegible] Susana [illegible] without injury to plants

Biologist Signature: [signature] Date: 8/4/10

HGL Field Supervisor Signature: [signature] Date: [illegible]

Date: 8/13/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	1000-1230	5C-1	☐ VC ☑ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Mule
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Ephemeral drainages and riparian vegetation	5C-1	Riparian Protective Measures HOC-SMP pg N-1 to N-3	Breakage of a small number of stems on riparian shrubs but minimal impact with no loss of individual shrubs.

NOTES AND RECOMMENDATIONS:

Mule was a viable option for gamma scanning in riparian veg / drainages — minimal impact. Riparian vegetation was held aside in many cases by the monitor and other crew to avoid impacts as the mule passed. In one case, upright stems of one mulefat shrub were cut to allow passage of mule within drainage bottom. Mule exited & entered drainage where banks were low gradient, whenever possible. Result was loss of a few stems of a few riparian shrubs as mule passed, but did not result in loss of any individual native species.

Biologist Signature: [signature] Date: 8/13/10

HGL Field Supervisor Signature: Leah Spezzi Date: 8/17/10

Date: 8/17/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SB-11	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed whacker, lopper, chainsaw, chipper
2	800-2pm	SB-10	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	" " " " "
3	1200-2pm	SB-9	☐ VC ☒ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	same as above plus ERGS
4	1pm-230	SB-14	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed whacker, lopper, chainsaw, chipper
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling.

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Oak	SB-11	low lying branches trimmed to allow access.	
2	Tarplant	SB-10	Pg. 6-46 to 6-47 - avoided	
3	Tarplant	SB-9	Avoided: 6-46 to 47.	
4	Oaks tarplant	SB-14	tarplant avoided. Oaks trimmed under canopy (low lying branches)	

NOTES AND RECOMMENDATIONS:

Biologist Signature: _____ Date: 8/17/10

HGL Field Supervisor Signature: _____ Date: 8/19/10

Date: 8/16/2010

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	0800-130	SB-9	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	loppers, weed whackers, skid steer w/mower
2	0800-130	SB-10	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	loppers, weed whackers, skidsteer w/mower
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

and chainsaw for oak

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplant	SB-9	Protective measures on G-46, 47. Avoided	Avoided ~~None~~ - Grass around it trimmed
2	Tarplant, Arbrantonil oaks	SB-10	Pgs G-4, 5, G 46-47 E-2	Oak- low branches < 70% dbh trimmed Tarplant and astragalus avoided

NOTES AND RECOMMENDATIONS:

All tarplant and Braunton's astragalus were avoided.

Young oaks at site were fenced and avoided

Mature oak in center of SB-10 required trimming of low branches to allow access to canopy. Limbs were < 70% of trunk dbh.

Biologist Signature: _____ Date: 8/16/10

HGL Field Supervisor Signature: Noah Sprague Date: 8/18/10

Date: 9/7/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-1430	SA-17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	chipper, loppers, chainsaw, weedwacker
2	1400-1420	SA-19	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Loppers, backhoe
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplant, Dudleya, Woodrat houses	SA-17	Flagged, avoided	Intact
2	none	SA-19	n/a	-

NOTES AND RECOMMENDATIONS:

Done w/HL SA-17 VC.

SA-17 Bird Spp observed: canyon wren, common ravens, California towhee, rock wren, oak titmouse, bewick's wren

SA-19 Birds: spotted towhee, oak titmouse

Biologist Signature: _____ Date: 9/7/10

HGL Field Supervisor Signature: _____ Date: 9-7-10

Date: 8/27/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-900	SA-16	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	chipper
2	800-300	SA-17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed wheeler, loppers, chainsaw, chipper
3	910-930	SA-15	☐ VC ☒ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	mule
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	~~Biver~~ Woodrat middens	SA-16	Avoided	~~Cover~~ reduced.
2	Tarplant, oaks, woodrat nests/middens	SA-17	Tarplant avoided, oaks left standing	Cover reduced, tarplant avoided.
3	Tarplant	SA-15	Monitor present, tarplant avoided	None.

NOTES AND RECOMMENDATIONS:

Big-eared woodrat encountered, had chipper avoid it today. Nest was fairly exposed under sumac stumps.

Biologist Signature: _____ Date: 8/27/10

HGL Field Supervisor Signature: Kirsten SR Mildman Date: 8/27/10

Date: 8/26/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	~~16~~ 17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	~~chipper~~ weed whacker, lopper, chainsaw.
2	700-300	~~17~~ 16	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	chipper
3	1315-1345	SC-7	☐ VC ☒ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	ERGS
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
2	~~Tarplant~~, oaks, woodrat nests	16	Oak trimming guidelines, woodrat nests left intact	
~~1~~	Woodrat nests, ~~oaks~~ tarplant	17	Tarplant avoided	1 tarplant (small) heavily damaged.
3	Vernal pool	SC-7	No entry into pool.	None

NOTES AND RECOMMENDATIONS:

(1) Rattlesnake removed by Pinkerton. Area on 17 already cut, tarplant present, no monitor present. Large tracks - possibly ERGS went through here.

~~(1)~~ Photos 940-941

(2) None

Photos 942-943

(3) Supplemental scanning at 'vernal pool' required. ERGS extended boom over wetland without driving into wetland. Lowered scanner to 3-4 inches above ground. No impacts to wetland.

Photos 936-939

Biologist Signature: [signature] Date: 8/26/10

HGL Field Supervisor Signature: [signature] Date: 8/26/10

Date: 9/2/2010

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	SA-17	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Both: weedwacker chainsaw,
2	800-300	SA-18	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	loader, chipper, mower
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1,2	SS tarplant oaks, woodrat middens	SA-17 SA-18	Tarplant avoided, monitored Middens avoided, nests tolerated	None

NOTES AND RECOMMENDATIONS:

Mower used in flat brushy areas - no apparent wildlife mortality.

Dead rabbit found at edge of section - neck wound appears to be from predator and not from project activities.

Biologist Signature: _____ Date: 9/2/10

HGL Field Supervisor Signature: Noah Spencer Date: 9/3/10

Date: 9/1/10 Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	SA-17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed whackers, lopper, clippers, chainsaw,
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplant, oaks, woodrat middens	SA-17	Monitored, avoided, oaks trimmed to Vtaro. Reqs.	Some loss of cover for woodrats middens.

NOTES AND RECOMMENDATIONS:

Crew is doing an excellent job avoiding tarplant and working with other resource issues.

Biologist Signature: _____ Date: 9/1/10

HGL Field Supervisor Signature: _____ Date: 9-1-10

Date: 8/23/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	0800-0930	~~AA~~ 15	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	chipper, weed whacker, lopper, chainsaw
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplant	SS-15	Avoided, monitor present	None

NOTES AND RECOMMENDATIONS:

Captured tarantula and relocated it to area N of SS-9.

Biologist Signature: _____ Date: 8/23/10

HGL Field Supervisor Signature: _____ Date: 8/31/10

Date: 8/31/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SA-17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Chipper, lopper, weedwhacker, chainsaw
2	1100-1130	SB-14	☐ VC ☒ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Mule, " , "
3	1130-300	SA-17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Same as #1
4	900-920	SA-15	☐ VC ☒ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	ERGS
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1,3	tarplant, oaks, woodrat middens	SA-17	avoidance, trimming of oaks	Tarplant OK, oaks trimmed middens exposed
2	tarplant	SB-14	avoided	None
4	tarplant on rocks	SA15	avoided	None

NOTES AND RECOMMENDATIONS:

Possible loggerhead shrike calling from SA-19 or 21.

Another Big-eared woodrat seen at SA-17 by large oaks - continue to preserve middens as much as possible.

Biologist Signature: _____ Date: 8/31/10

HGL Field Supervisor Signature: Zach Spring Date: 8/31/10

Date: 9/3/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SA-18	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	chipper, weed whackers, loppers, chain saw
2	800-300	SA-17	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	(same as above)
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	tarplant, oaks.	SA-18	all tarplant avoided oaks trimmed per VTA, co.	tarplant intact oaks ok
2	tarplant,	SA-17	all tarplant avoided	tarplant intact

NOTES AND RECOMMENDATIONS:

Lots of laurel sumac chipped on SW side of SA-17.

Southern portion of SA-17 nearly done with VC.

LDI doing excellent job with avoiding resources and minimizing VC damage.

Biologist Signature: _____ Date: 9/3/10

HGL Field Supervisor Signature: _____ Date: 9-3-10

Date: 8/20/10 Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	1130-300	SS-14	☑ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	Chipper, chainsaw
2	1130-300	SS-15	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed whacker, lopper, chainsaw
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

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MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplant, Oaks	SS-14	Avoided tarplant	See notes.
2	Tarplant, Oaks	SS-15	Avoided tarplant	None

NOTES AND RECOMMENDATIONS:

Two tarplant in SS-14 partially covered w/mulch. I instructed crew in SS-15 to avoid the tarplant there when mulching.

Biologist Signature: _____ Date: 8/20/10

HGL Field Supervisor Signature: _____ Date: 8/23/10

Date: 8/18/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	930 - 200	SS-14	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed whackers, loppers, chainsaw, d
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Toyon, oaks	SS-14	Tarp + wattles, oaks trimmed per Vta Co. Ordinance.	

NOTES AND RECOMMENDATIONS:

- Arborist or more details regarding Ventura Co. Tree Ordinance are needed due to some questions from HGL about trimming. BA standards not being followed in all cases.
- Dusky-footed (big-eared) woodrats rescued from 2-foot deep 4-inch steel pipe in asphalt, using snake tongs by Pinkerton Security. Woodrat was shooed off site away from ~~nutcher~~ mulch piles.
  - Recommend filling ~~holes~~ or covering holes in ground. Wanted to fill in hole that trapped woodrat using dirt or asphalt bits, but denied permission by HGL. Potential for State/Concern Species San Diego Desert Wood-rat.

Biologist Signature: _____ Date: 8/18/10

HGL Field Supervisor Signature: _____ Date: 8/19/10

Date: 8/19/10 Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	1000-200	SS-14	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	loppers, brush saw, chipper
2	12-200	SS-15	☒ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	weed whackers
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	
			☐ VC ☐ GS ☐ GP ☐ SS ☐ MWS ☐ SWSS	

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplant, oaks	SS-14	Avoided tarplant, minimal trimming of oaks	
2	Tarplant, oaks	SS-15	Avoided tarplant, minimal trimming of oaks	

NOTES AND RECOMMENDATIONS:

Briefly discussed need for clarity on Uto trimming Ordinance w/ Leah Richard (HGL) (LDI).

Biologist Signature: _____ Date: 8/19/10

HGL Field Supervisor Signature: Leah Spinga Date: 8/20/10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/8/2010 **Biologist:** Scott Werner

ACTIVITIES MONITORED

ID	Time	HSA Area	Survey Section	Activities Monitored*	Equipment Used
1	0800-1500	5A	19	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader
2	1140-1150	5C	7	GS	Mule

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	AMM's Implemented	Residual Impacts
1	Nesting bird. Santa Susana tarplant. Oaks. Woodrat middens.	50-foot buffer around mourning dove nest. Tarplant avoided. Oaks trimmed per Ventura Co. Ordinance. Woodrat middens avoided.	Dove nest still active at day's end. Tarplant intact. Oaks trimmed. Middens intact but cover reduced.
2	Santa Susana tarplant. Vernal pool.	Mule guided around tarplant and vernal pool.	Tarplant and vernal pool successfully avoided, no impacts.

NOTES AND RECOMMENDATIONS:

SS-19: During clearance survey, suitable habitat was identified for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

Active mourning dove (*Zenaida macroura*) nest located in laurel sumac at western edge of SS-19 near dirt road. Several branches in shrub trimmed prior to discovery, but slight reduction in foliage cover and damage to nest habitat not deemed significant. Nest UTM 342696E, 3789193N NAD83. Two nestlings with flight feathers coming in, age estimated at 5-6 days. Typically 12-15 days to fledge. 50-60 foot buffer established around nest during which no work may take place without approval of monitor.

Woodrat seen crossing main road (G Street), fleeing vegetation work. It was likely big-eared woodrat (*Neotoma macrotis*) based on apparent size and other nearby woodrats recently identified. Successfully entered culvert at G St and 12th St.

Wildlife seen in SS-19:

Big-eared woodrat (*Neotoma macrotis*) (likely)
Calif. Ground squirrel (*Spermophilus beecheyi*)
California whipsnake (*Masticophus lateralis*)
Mourning dove (*Zenaida macroura*)
western scrub-jay (*Aphelocoma californica*)
rock dove (*Columba livia*),
Anna's hummingbird (*Calypte anna*)
Oak titmouse (*Baeolophus inornatus*)
Spotted towhee (*Pipilo maculatus*)
White-breasted nuthatch (*Sitta carolinensis*)
Bewick's wren (*Thryomanes bewickii*)
Acorn woodpecker (*Melanerpes formicivorus*)
common raven (*Corvus corax*)
American crow (*Corvus brachyrhynchos*)
California towhee (*Pipilo crissalis*)
lark sparrow (*Chondestes gramacus*)
black phoebe (*Sayornis nigricans*)
Nuttall's woodpecker (*Picoides nuttallii*)
Wrentit (*Chamaea fasciata*)
California quail (*Callipepla californica*)

Biologist Signature: _____ Date: 9/8/10

HGL Field Supervisor Signature: _____ Date: 9-8-10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/9/2010 **Biologist:** Scott Werner

ACTIVITIES MONITORED

ID	Time	HSA Area	Survey Section	Activities Monitored*	Equipment Used
1	0920-1345	5A	19	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader
2	1345-1500	5B	12	VC	Weed whackers, loppers, chainsaw, chipper, skidster, skidster with mower, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

ID	Protected Resources Encountered	AMM's Implemented	Residual Impacts
1	Nesting bird. Santa Susana tarplant. Oaks. Woodrat middens.	50-foot buffer around mourning dove nest. Tarplant avoided. Oaks trimmed per Ventura Co. Ordinance. Woodrat middens avoided.	Dove nest still active at day's end. Tarplant intact. Oaks trimmed. Middens intact but cover reduced.
2	Oaks. Woodrat middens. Least Bell's vireo habitat area. Suitable CSC wildlife habitat (see below).	Oaks trimmed per Ventura Co. Ordinance. Woodrat middens avoided. Least Bell's vireo habitat area avoided. Monitor present for all other work.	Oaks trimmed. Middens intact but cover reduced. Least Bell's vireo habitat area intact. CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

SS-12 and SS-19: Suitable habitat identified for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

The active mourning dove (*Zenaida macroura*) in SS-19 nest was still active. Adult observed on nest brooding at least 1 nestling.

Wildlife seen in SS-19:
Calif. Ground squirrel (*Spermophilus beecheyi*)

Mourning dove (*Zenaida macroura*)
lark sparrow (*Chondestes gramacus*)
canyon wren (*Catherpes mexicanus*)
California towhee (*Pipilo crissalis*)
Oak titmouse (*Baeolophus inornatus*)
Spotted towhee (*Pipilo maculatus*)
Bewick's wren (*Thryomanes bewickii*)
California quail (*Callipepla californica*)
common raven (*Corvus corax*)
white-throated swift (*Aeronautes saxatilis*)
California thrasher (*Toxostoma redivivum*)
black phoebe (*Sayornis nigricans*)
Nuttall's woodpecker (*Picoides nuttallii*)

Biologist Signature: _____ Date: 9/9/10

HGL Field Supervisor Signature: Leah Speraza Date: 9-9-10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/14/2010 Tuesday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-12 SS-19 SS-20 SS-22 SS-23	0800-1445	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader
6	SS-25	1210, 1445	VC	Loppers, front loader (poison oak removal only)

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-19	Santa Susana tarplant	VC-1, VC-2, VC-10. Avoided, monitor present.	None.
SS-12 SS-19 SS-20 SS-22 SS-23	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed.
SS-12 SS-19 SS-20 SS-22 SS-23	Woodrat middens.	VC-1, VC-2. Woodrat middens avoided.	Middens intact but cover reduced.
SS-12 SS-19 SS-20 SS-22 SS-23 SS-25	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

SS-12, SS-19, SS-20, SS-22, SS-23, SS-25: Suitable habitat identified for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

SS-25 not cleared for biological issues prior to encroachment by poison oak crew. Delineation between SS-19 and SS-25/28 not flagged. It is highly recommended that Survey Section boundaries be marked in the future because LDI does not have detailed maps showing this.

Small rattlesnake (*Crotalus viridis helleri*) at eastern edge of SS-19 escaped before snake handler arrived.

Wildlife seen onsite:

Calif. Ground squirrel (*Spermophilus beecheyi*)

California Quail (*Callipepla californica*)
Rock Pigeon (*Columba livia*)
Mourning Dove (*Zenaida macroura*)
Acorn Woodpecker (*Melanerpes formicivorus*)
Nuttall's Woodpecker (*Picoides nuttallii*)
Black Phoebe (*Sayornis nigricans*)
Western Scrub-Jay (*Aphelocoma californica*)
Common Raven (*Corvus corax*)

Western fence lizard (*Sceloporus occidentalis*)
Side-blotched lizard (*Uta stansburiana*)

Oak Titmouse (*Baeolophus inornatus*)
Bushtit (*Psaltriparus minimus*)
Canyon Wren (*Catherpes mexicanus*)
Bewick's Wren (*Thryomanes bewickii*)
Spotted Towhee (*Pipilo maculatus*)
California Towhee (*Pipilo crissalis*)
Lark Sparrow (*Chondestes grammacus*)
House Finch (*Carpodacus mexicanus*)

Southern Pacific rattlesnake (*Crotalus viridis helleri*)

Biologist Signature: _____ Date: 9/15/10

HGL Field Supervisor Signature: Leah Spiegel Date: 9-22-10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/15/2010 Wednesday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-19 SS-20	0800-1445	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader
6	SS-25	1040	VC	Mower

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-25	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Instructed mower driver to stop.	CSC habitat reduced.
SS-19 SS-20	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed.
SS-19 SS-20	Woodrat middens.	VC-1, VC-2. Woodrat middens avoided.	Middens intact but cover reduced.
SS-19 SS-20	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

SS-19, SS-20, SS-25: Suitable habitat identified for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

SS-25 not cleared for biological issues prior to encroachment by mower. This is the second day in a row that LDI has encroached into an area not scheduled for work. Boundaries are not marked and crew was not stopped by HGL but rather by myself.

Relocated possibly injured fulvous harvest mouse (*Reithrodontomys fulvescens*) from SS-19 into SS-12 uncleared vireo area.

Wildlife seen onsite:

Desert cottontail (*Sylvilagus audubonii*)
Fulvous harvest mouse (*Reithrodontomys fulvescens*)
Calif. Ground squirrel (*Spermophilus beecheyi*)

California Quail (*Callipepla californica*)
Rock Pigeon (*Columba livia*)
Western Scrub-Jay (*Aphelocoma californica*)
Oak Titmouse (*Baeolophus inornatus*)
Bushtit (*Psaltriparus minimus*)
Bewick's Wren (*Thryomanes bewickii*)
California Towhee (*Pipilo crissalis*)
Lark Sparrow (*Chondestes grammacus*)
Black-headed Grosbeak (*Pheucticus melanocephalus*)

Western fence lizard (*Sceloporus occidentalis*)

Biologist Signature: Scott Werner Date: 9/15/10

HGL Field Supervisor Signature: Leah Speraza Date: 9-22-10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/16/2010 Thursday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-19	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader
6	SS-28	1100	VC	Loppers, front loader
5A	SS-17	1410-1420	GS	Handcart

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-19	Santa Susana tarplant	VC-1, VC-2, VC-10. Avoided, monitor present.	None.
SS-19	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed.
SS-19	Woodrat middens.	VC-1, VC-2. Woodrat middens avoided.	Middens intact but cover reduced.
SS-19	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.
SS-17	Santa Susana tarplant	GS-5. Avoided, monitor present.	None.

NOTES AND RECOMMENDATIONS:

SS-19, SS-28: Suitable habitat identified for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

Crew veered into SS-28 slightly for poison oak removal and minor trimming. I checked area for sensitive resources and did not find any. It is highly recommended that Survey Section boundaries be marked in the future because LDI does not have detailed maps showing this.

Southern Pacific rattlesnake (*Crotalus viridis helleri*) at eastern edge of SS-19 found 50 feet from where we had the one on Tuesday that escaped before removal. It appears to be the same snake today and it was removed.

Wildlife seen onsite:

Calif. Ground squirrel (*Spermophilus beecheyi*)

Red-tailed Hawk (*Buteo jamaicensis*)
Mourning Dove (*Zenaida macroura*)
White-throated Swift (*Aeronautes saxatalis*)
Acorn Woodpecker (*Melanerpes formicivorus*)
Nuttall's Woodpecker (*Picoides nuttallii*)
Western Scrub-Jay (*Aphelocoma californica*)
Oak Titmouse (*Baeolophus inornatus*)
Bushtit (*Psaltriparus minimus*)
Canyon Wren (*Catherpes mexicanus*)
Bewick's Wren (*Thryomanes bewickii*)
California Towhee (*Pipilo crissalis*)
Lark Sparrow (*Chondestes grammacus*)
Western Tanager (*Piranga ludoviciana*)

Western fence lizard (*Sceloporus occidentalis*)
Southern Pacific rattlesnake (*Crotalus viridis helleri*)

Biologist Signature: _____ Date: 9/16/10

HGL Field Supervisor Signature: _____ Date: 9-22-10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/17/2010 Friday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5A	SS-19	0800-1115	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader
5B	SS-12	0900-0915	GS	ERGS
5A	SS-21	1230-1300	VC	Weed whackers, loppers, chainsaw, chipper, skidster

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-19	Santa Susana tarplant	VC-1, VC-2, VC-10. Avoided, monitor present.	None.
SS-19	Dudleya sp.	VC-1, VC-2, VC-9. Avoided, monitor present.	None.
SS-19 SS-21	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed.
SS-19 SS-21	Woodrat middens.	VC-1, VC-2. Woodrat middens avoided.	Middens intact but cover reduced.
SS-19 SS-21	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.
SS-12	Least Bell's Vireo habitat area	GS-1. Instructed ERGS drivers to stay out of protected, flagged area.	None.

NOTES AND RECOMMENDATIONS:

SS-19, SS-21: Suitable habitat identified for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

Wildlife seen onsite:

Calif. Ground squirrel (*Spermophilus beecheyi*)
Desert cottontail (*Sylvilagus audubonii*)

California Quail (*Callipepla californica*)
Rock Pigeon (*Columba livia*)
Nuttall's Woodpecker (*Picoides nuttallii*)
Oak Titmouse (*Baeolophus inornatus*)
Rock Wren (*Salpinctes obsoletus*)
Wrentit (*Chamaea fasciata*)
California Thrasher (*Toxostoma redivivum*)
Spotted Towhee (*Pipilo maculatus*)
California Towhee (*Pipilo crissalis*)
Red-winged Blackbird (*Agelaius phoeniceus*)

Western fence lizard (*Sceloporus occidentalis*)
Side-blotched lizard (*Uta stansburiana*)

Biologist Signature: _____ Date: 9/17/10

HGL Field Supervisor Signature: _____ Date: 9-22-10

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/22/2010 Wednesday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, front loader
5A	SS-17	0920-0935	GS	ERGS, handcart
5A	SS-19	10156	GS	Mule

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	None
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	2 plants trimmed back before being flagged on eastern edge of plot.
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.
SS-17	Santa Susana tarplant	GS-1, GS-5	None
SS-19	Santa Susana tarplant	GS-1, GS-2, GS-5	None
SS-19	Dudleya	GS-1, GS-2	None

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

Skidster mowing SS-51 (not closely monitoring but seen from hillside).

Loggerhead shrike still seen to still be lingering at SS-54.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/23/2010 Thursday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	None
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	None
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

Skidster spending most of morning finishing mowing SS-51.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/24/2010 Friday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, skidster, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	3 milkvetch damaged/cut today.
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	None
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

One Braunton's milkvetch was uprooted at UTM 341994E, 3788680N. This was located in a clump of 4-5 milkvetch and although this plant was not flagged, surrounding plants were.

Another milkvetch at UTM 342009E, 3788687N appears to be damaged in root system but is still standing (is unsteady and may fall in high winds or rain). Damaged resulted from skidster brushing up against it while removing a load of vegetation. Location is near the water main on east edge of plot, and this previously disturbed area was the best place for the skidster to get in to remove piled up vegetation for chipping on road below at flat terrain.

A third milkvetch (UTM 341990E, 3788662N) cut at base by chainsaw, appears to have been mistaken for toyon limb as stem was about 1 foot away from clump of toyon trunks.

Recommendation made to use loppers when milkvetch is growing within canopy of toyon or other shrubs, clear an area around the milkvetch and stem, and then use chainsaw when demarcation between milkvetch and shrub is clear.

Skidster ("tank") is reaching fairly far up hillside with fork attachment to remove piles of woody vegetation created by cutting crews. Driver was advised to make straight approaches and then back down hill, avoiding turns that might upturn dirt and associated low-growing vegetation. Overall this approach is working with minimal damage to hillside and sensitive plants.

One note of interest: small inactive bird nest (lesser goldfinch?) seen in Braunton's milkvetch at UTM 341946E, 3788660N.

Loggerhead shrike still hunting at SS-54, SS-55, SS-56 despite these plots having been mowed in last few days.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/27/2010 Monday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1230	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	None.
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	None
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

Recommendation made to use loppers when milkvetch is growing within canopy of toyon or other shrubs, clear an area around the milkvetch and stem, and then use chainsaw when demarcation between milkvetch and shrub is clear.

Progress on SS-51: most VC work still in burned oak woodland, weed whackers got to western edge of HSA-8 portion that cuts through SS-51, chipping lots of material on road at NE edge of SS-51 and SS-58

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/28/2010 Tuesday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	1 branch damaged on plant that should survive.
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	About 5 plants that were not flagged have been heavily cut back but will likely survive due to this species' growth pattern.
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

Preston Butler (HGL) and Roger Shura (EPA) are inspecting site and would like to see more dead wood and small trees removed that are not protected under the Ventura County Tree Trimming Ordinance. LDI states that they are generally not able to remove most limbs above shoulder height.

One Braunton's milkvetch damaged (large branch torn away from main stem) at UTM 3411865E 3788691N.

Same loggerhead shrike seen near SS-54.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/29/2010 Wednesday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	None
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	None
SS-51	Coast horned lizards	n/a (translocated off SS-51)	Successfully translocated.
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010.

Today crews were weed-whacking and removing burned chaparral limbs on upper portion of SS-51 in milkvetch area.

Very young coast horned lizard (yearling?) found at UTM 341831E, 3788611N, translocated to SS-52 at UTM 341807E, 3788577N.

Another smallish coast horned lizard found at UTM 341934E, 3788624N.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 09/30/2010 Thursday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper, skidster, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	None
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	None
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, most trees less than 3" dbh removed.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

Today crews continued weed-whacking and removing burned chaparral limbs on upper portion of SS-51 in milkvetch area. Chipper active below along N side of SS-51.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 10/1/2010 Friday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5D	SS-51	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper, skidster

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-1, VC-2, VC-3. Avoided, monitor present.	1 milkvetch plant damaged at main stem (likely from weed whacker)
SS-51	Malibu baccharis	VC-1, VC-2. Avoided, monitor present.	Some plants slightly trimmed but will survive.
SS-51	California black walnut	VC-1, VC-2. Most small trees are less than minimum size (3" dbh) to be preserved under Ventura County Tree Protection Ordinance and were cut to ground level.	Most trimmed to ground but will resprout.
SS-51	Coast horned lizards	n/a (translocated off SS-51)	Successfully translocated
SS-51	Oaks.	VC-1, VC-2. Oaks trimmed per Ventura Co. Ordinance.	Oaks trimmed, some less than 3" dbh removed.
SS-51	Woodrat middens.	VC-1, VC-2. Woodrat middens avoided.	Middens intact but cover reduced.
SS-51	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

0945: 4 juvenile coast horned lizards (*Phrynosoma blainvillii*; California Species of Special Concern) found at SE corner of SS-51 (UTM 341930E, 3788579N) as workers cleared vegetation. I translocated all 4 to SS-52 along Area IV boundary near water tank access road at UTM 341761E, 3788465N.

1230: 1 adult coast horned lizard found just north of discovery site of 4 lizards described above, at UTM 341949E, 3788615N. Individual translocated to SS-49 at UTM 341666E, 3788637N.

1 Braunton's milkvetch badly damaged at main stem (likely from weed whacker) at UTM 341949E, 3788627N; will count as take.

Suitable habitat for California Special Concern Species coast patch-nosed snake (*Salvadora hexalepis virgultea*) and silvery legless lizard (*Anniella pulchra pulchra*) identified during clearance survey on 9/20/2010. Species were not detected at site.

Loggerhead shrike still seen at SS-54.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____

BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 10/4/2010 Monday **Biologist:** Scott Werner

ACTIVITIES MONITORED

HSA Area	Survey Section	Time	Activities Monitored*	Equipment Used
5B	SS-12	0800-1500	VC	Weed whackers, loppers, chainsaw, chipper, skidster with mower, front loader

* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-12	Riparian vegetation (Least Bell's Vireo area)	Protection of riparian resources (Pages N-1 to N-3).	Woody riparian shrubs trimmed but left intact.
SS-12	Suitable CSC wildlife habitat (see below).	VC-1, VC-2. Monitor present for all VC work.	CSC habitat reduced.

NOTES AND RECOMMENDATIONS:

Least Bell's vireo (LBV) habitat area has been off-limits to crews since start of project in July. October 1 is start of non-sensitive period when LBV are known to be off-site and wintering in Mexico.

Amended Clearance Report for SS-12 dated 9/10/2010 identified suitable habitat for the following California Special Concern species: coast horned lizard (*Phrynosoma blainvillii*), silvery legless lizard (*Anniella pulchra pulchra*), San Diego desert woodrat (*Neotoma lepida intermedia*), and coast patch-nosed snake (*Salvadora hexalepis virgultea*). None detected at site.

Crews started trimming in riparian area in northwest section of LBV area downstream of G Street and got to about 100 feet downstream with woody trimming. Most shrubs left intact where bordering drainages. Riparian drainage is distinct just below G Street but then flattens out for about 100 feet. Drainage reemerges with southernmost 300 feet above southern limit of SS-12.

Skidster with mower attachment flattened herbaceous growth to northeast and southwest of scrub area. Weed whackers trimmed entire LBV area where possible.

5 rattlesnakes found (4 removed). No sensitive species observed.

Biologist Signature:_____ Date:_____

HGL Field Supervisor Signature:_____ Date:_____