



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**

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*Prepared for:*

**U.S. Environmental Protection Agency Region 9**  
75 Hawthorne Street  
San Francisco, CA 94105

*Prepared by:*

**HydroGeoLogic, Inc.**  
5800 Woolsey Canyon Road  
Building 204  
Canoga Park, CA 91304

*and*

**Envicom Corporation**  
28328 Agoura Road  
Agoura Hills, CA 91301

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.

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## 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

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(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*

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OCTOBER 22, 2010

*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 1<sup>st</sup>. 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
<i>Dudleya</i> sp.	SS-4	5C	2	7/22/2010
<i>Dudleya</i> sp.	SS-17	5A	10	8/17/2010
<i>Dudleya</i> sp.	SS-19	5A, 6	20	8/26/2010
Vernal pool brachiopod 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 brachiopod 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.

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***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.

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***Southern California rufous-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**

<b>Survey Section</b>	<b>Approximate Dimensions</b>	<b>Description of Activities Performed</b>	<b>Significant Impacts</b>
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

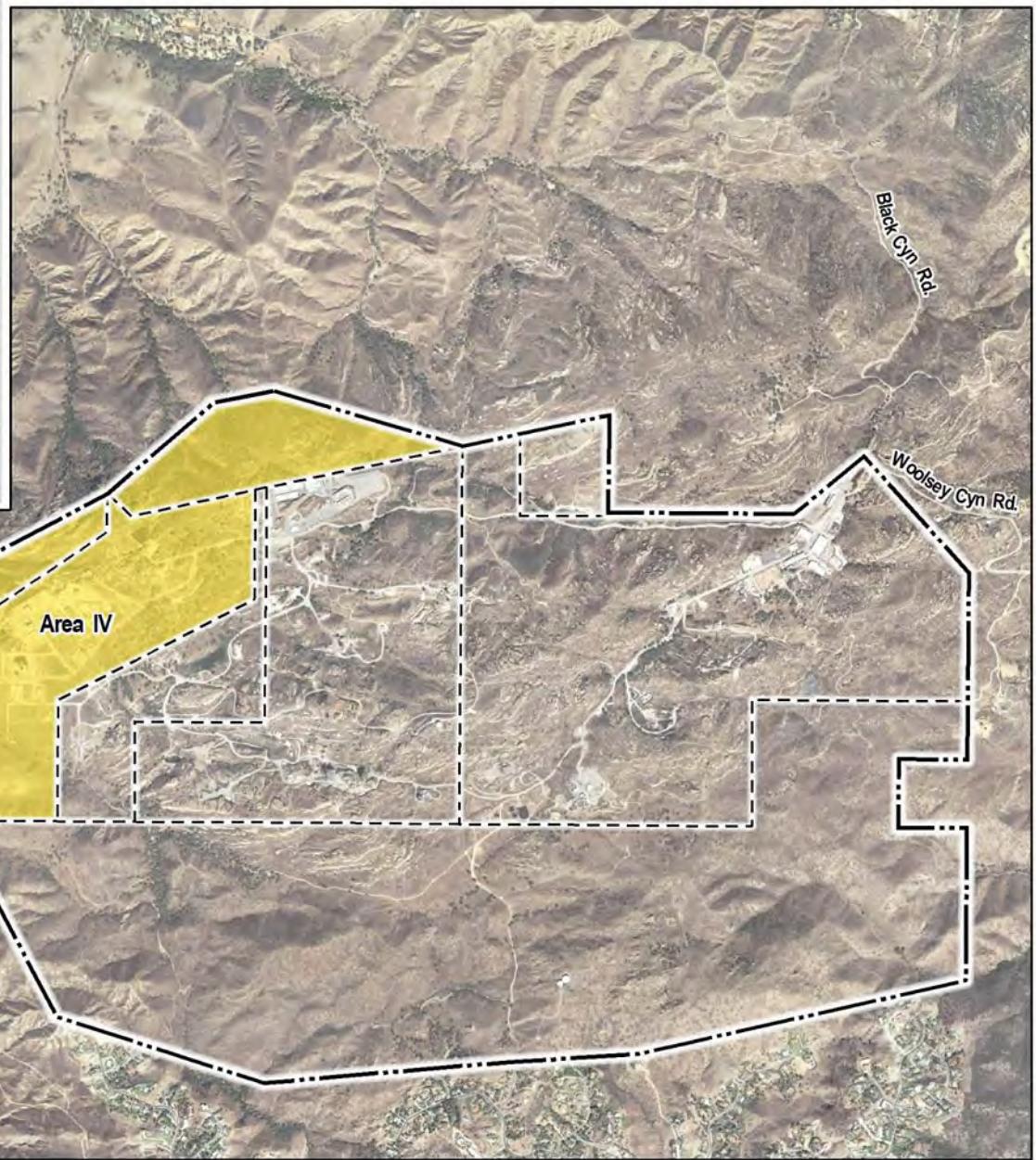
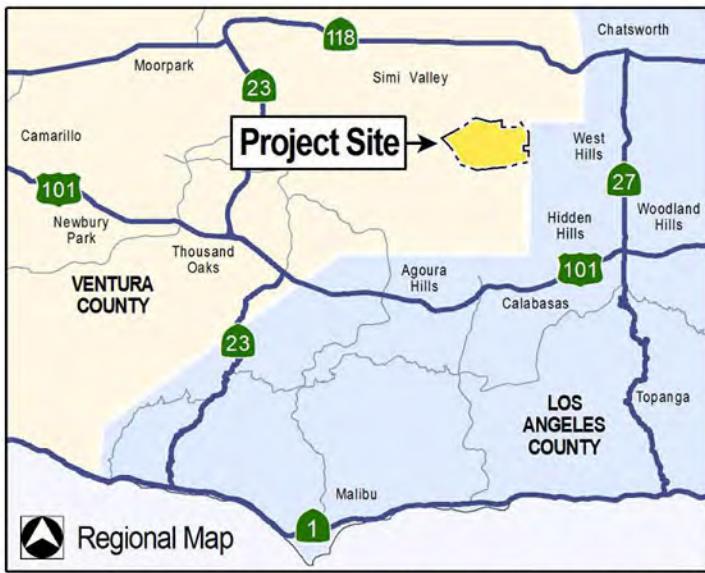
### **Issues Encountered and Adaptive Management**

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.

**QUARTERLY BIOLOGICAL MONITORING REPORT #1**

*OCTOBER 22, 2010*

## **Figures**



Aerial Source: CIRGIS, 2007.

SANTA SUSANA FIELD LABORATORY AREA IV RADIOLOGICAL STUDY - QUARTERLY REPORT

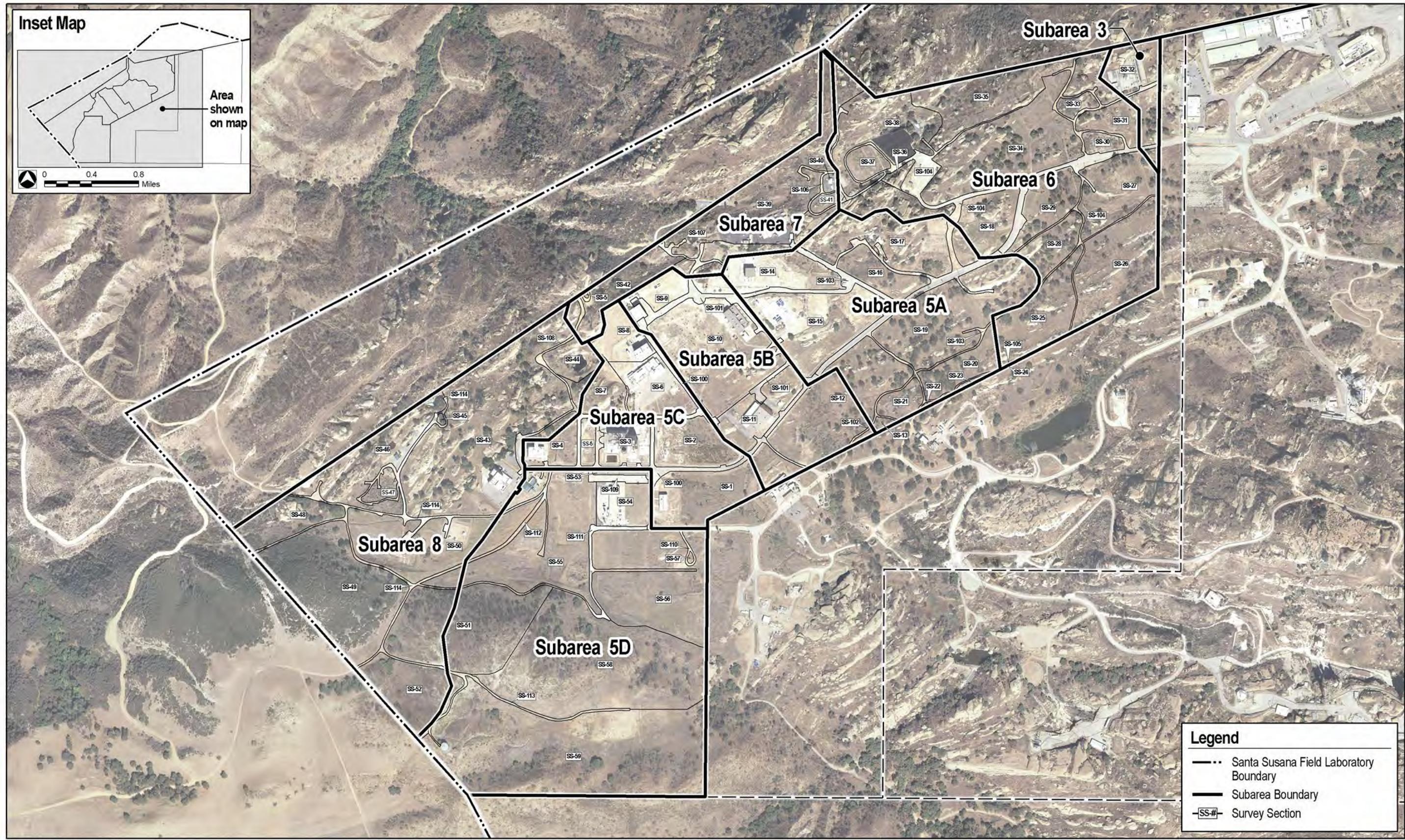
## Project Location Map

0 1,300 2,600 Feet

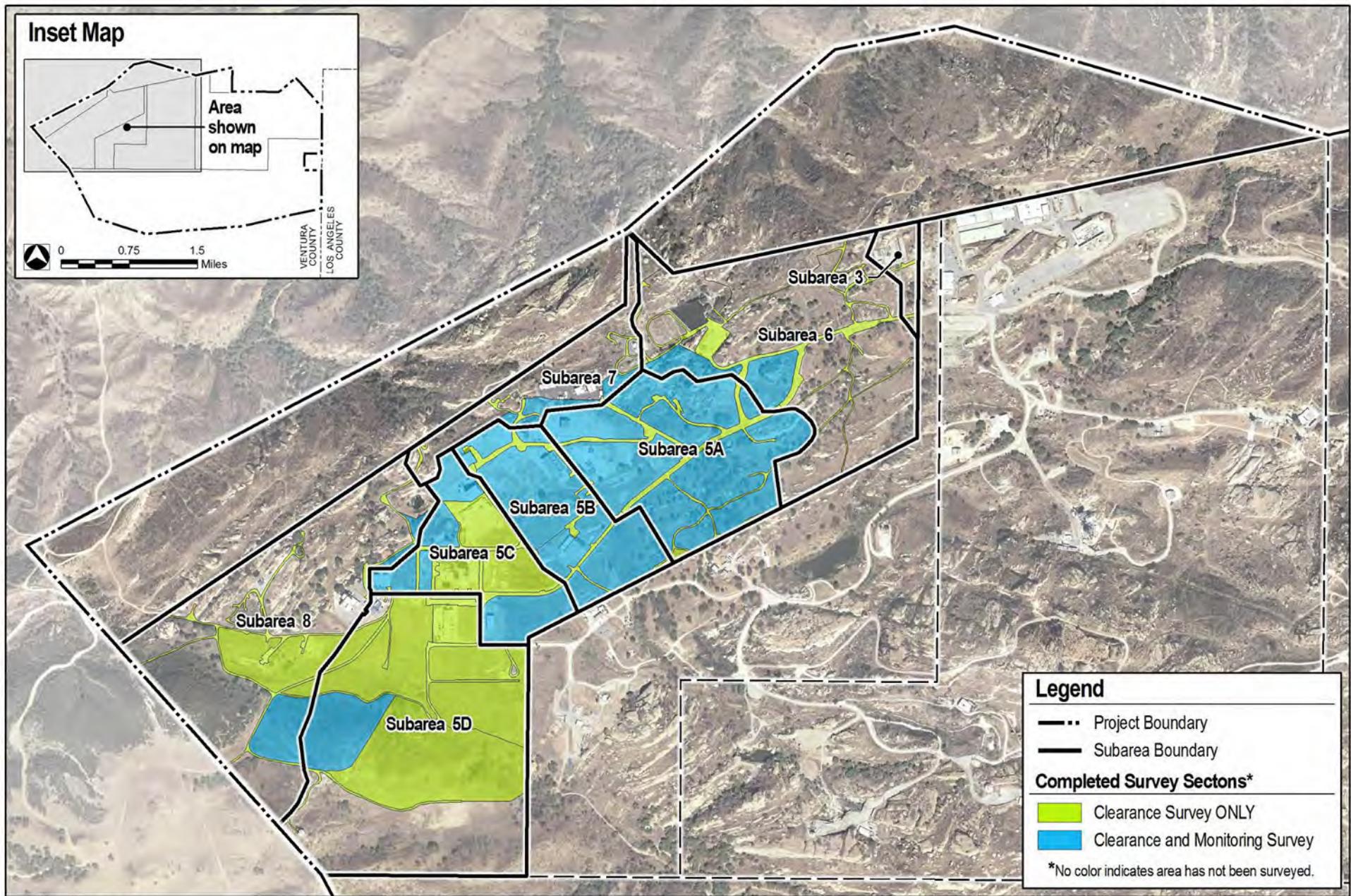
**ENVICOM  
CORPORATION**



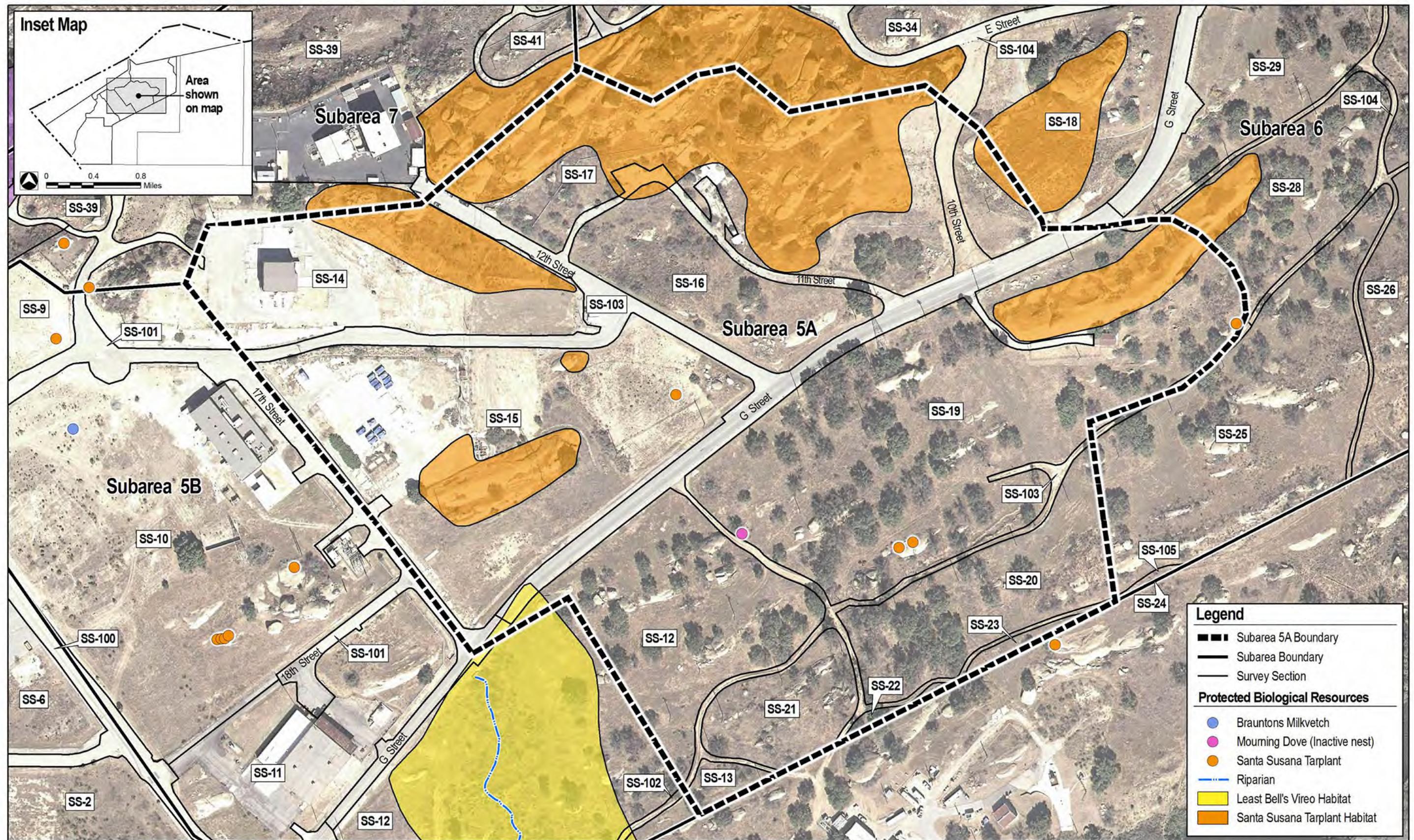
FIGURE 1



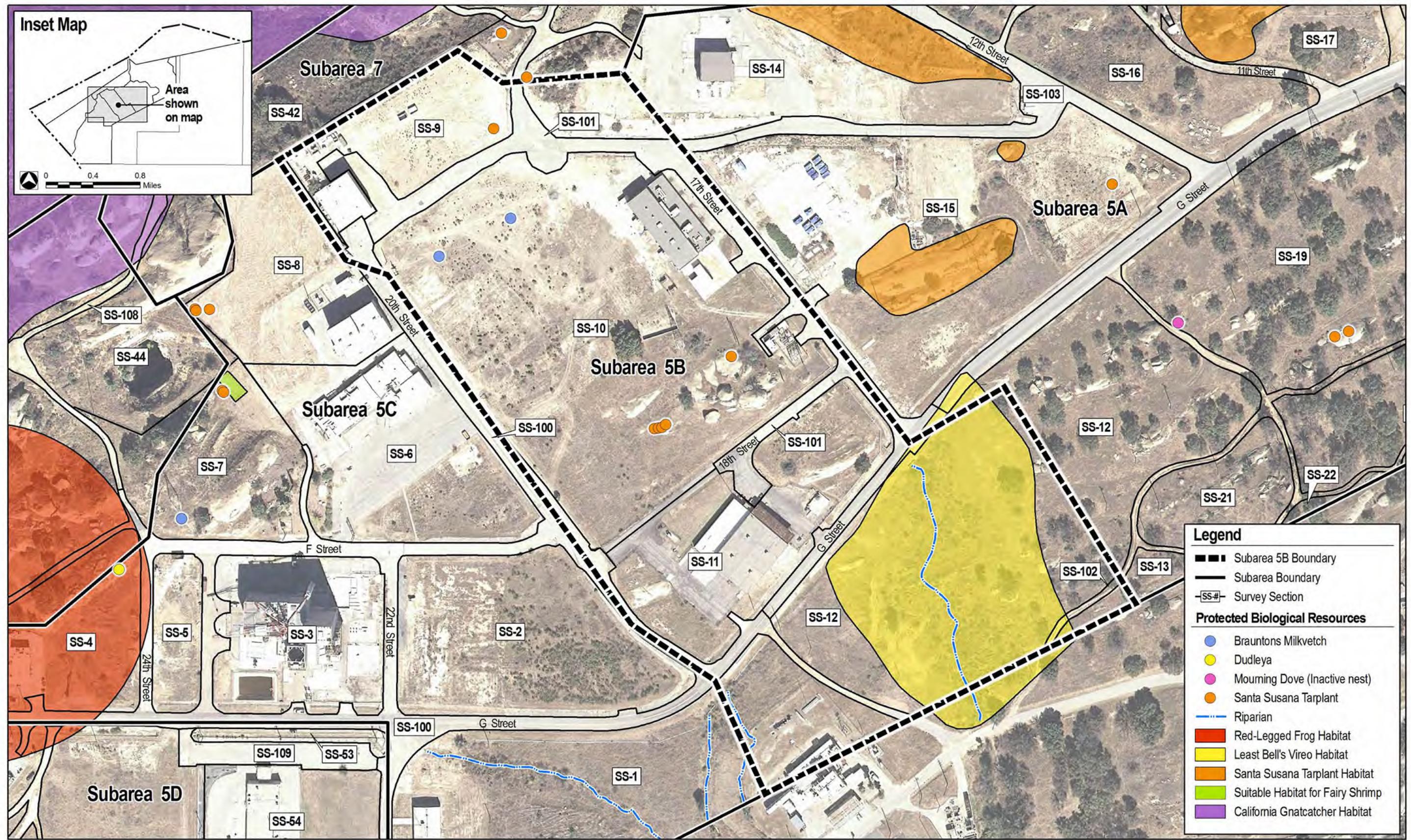
Aerial Source: CIRGIS, 2007.



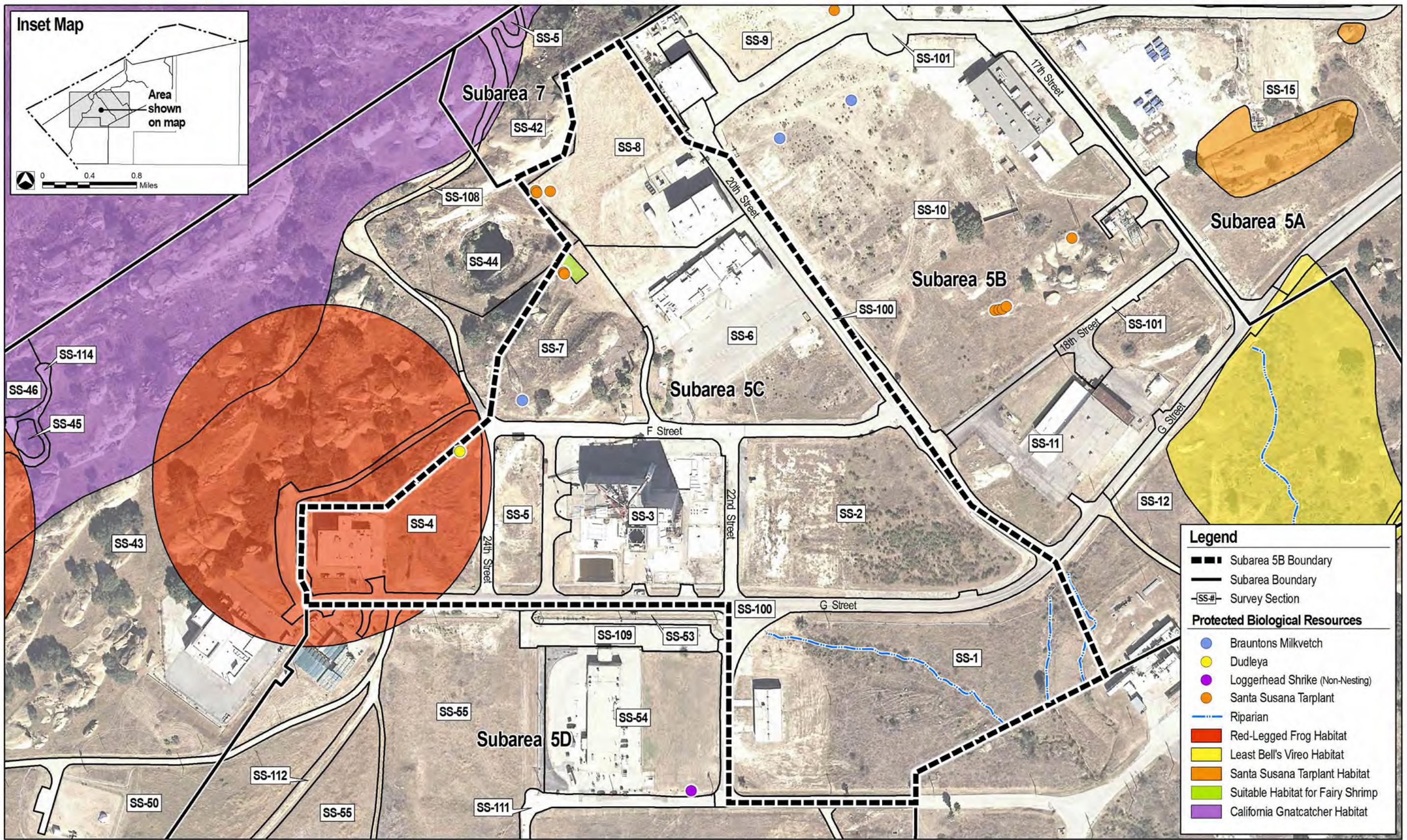
Aerial Source: CIRGIS, 2007.

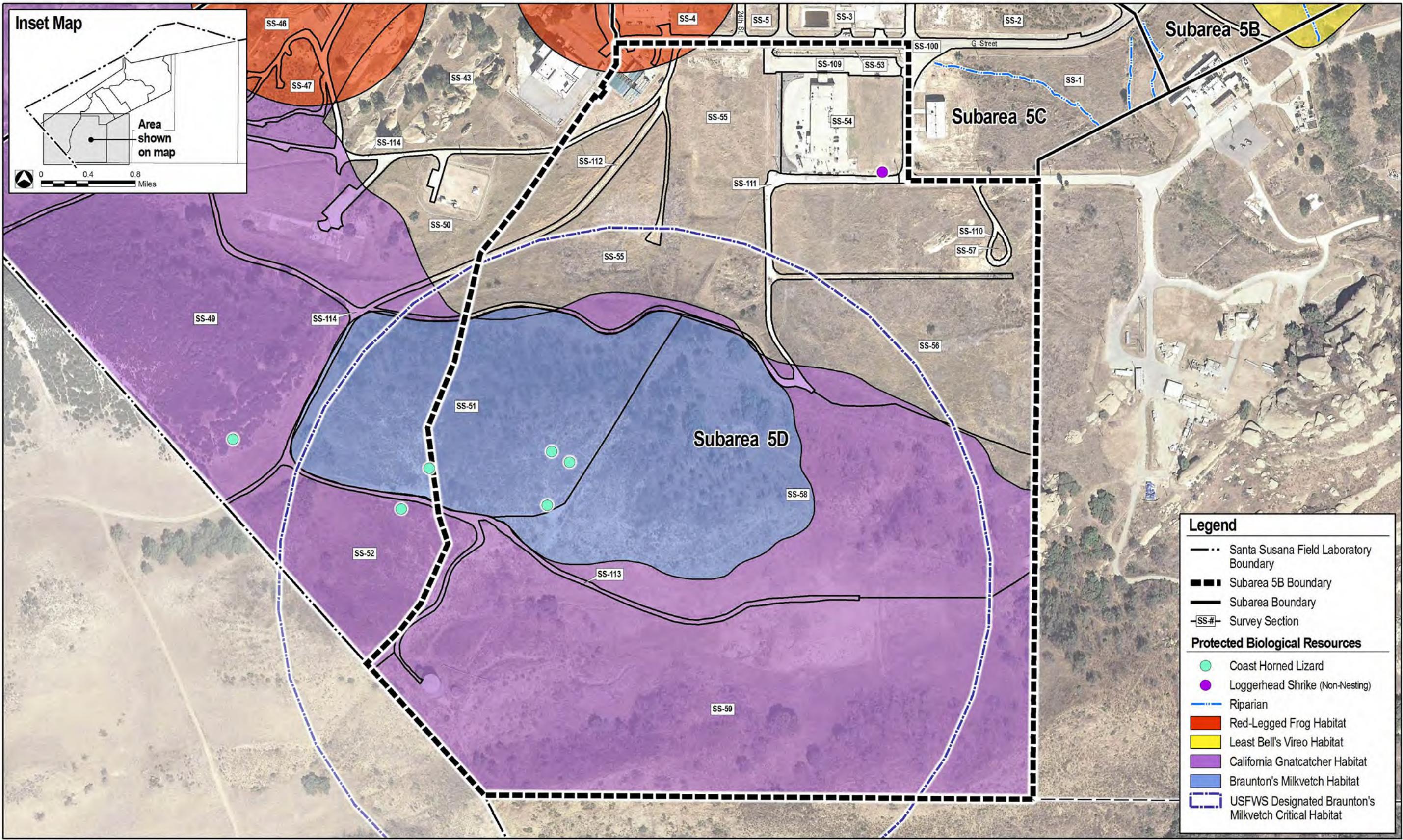


Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.





Aerial Source: CIRGIS, 2007.

**QUARTERLY BIOLOGICAL MONITORING REPORT #1**

*OCTOBER 22, 2010*

## **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.



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

## Representative Photographs of Surveying and Monitoring Activities

 ENVICOM  
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**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.

SANTA SUSANA FIELD LAB



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

 ENVICOM  
CORPORATION

## Representative Photographs of Surveying and Monitoring Activities



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.

SANTA SUSANA FIELD LAB



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

 ENIVCOM  
CORPORATION

## 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.

**QUARTERLY BIOLOGICAL MONITORING REPORT #1**

*OCTOBER 22, 2010*

**ATTACHMENT 1**  
**BIOLOGICAL CLEARANCE SURVEY FORMS**

Date: 7/23/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SC-1 and ~~part of~~ SB (no section # given for SB portion)

**SURVEYS PERFORMED**

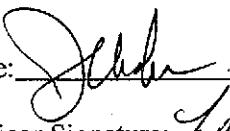
ID	Survey Type	Biologist	Expiration
1	Special status species, suitable habitat, nesting birds	TJ Anderson	May 1, 2011

**SURVEY FINDINGS**

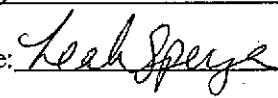
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Riparian vegetation/drainages N	N	HGL-SMP "Protection of Riparian Resources" pg N-1 to N-3
1	Coast live oaks/willows	N	<del>Hazardous</del> Trees shall not be cut. Vegetation Management Protocols in HGL-SMP, related 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, purple fat) adjacent to drainages shall not be cut to 6-18 inches. Understory branches of the native vegetation 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 likely require some hand scanning methods, perhaps with a shovel in some areas.

Biologist Signature: 

Date: 7/23/10

HGL Field Supervisor Signature: 

Date: 7/23/10

Date: 7/22/10

Sheet 1 of 1

## BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SC - 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 SC-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 Springer

Date: 7-23-10

Date: July 26, 2010

Sheet 1 of 1

## **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, 2010

## **SURVEY FINDINGS**

#### **NOTES AND RECOMMENDATIONS:**

Biologist Signature: 

Date: 7/26/10

HGL Field Supervisor Signature: Keek Soren

Date: 7/26/10

Date: 7/22/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SC - 4

**SURVEYS PERFORMED**

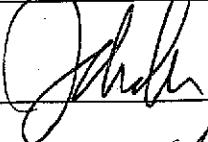
ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

**SURVEY FINDINGS**

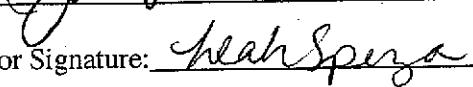
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Dudleya sp. (2) Coast live oaks w/dbh > 3in	Y NY*	HGL-SMP Protective Measures pgs 6-16,17 Vegetation Management Protocols HGL-SMP related to oak trees pg E-2
			that can't be cut to 6-18" are * Saplings flagged to avoid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

**NOTES AND RECOMMENDATIONS:**

- Part of SC-4 was surveyed <sup>to</sup> for clearance area on July 19, 2010. Remainder surveyed during this visit.
- Two (2) Dudleya sp. (unknown species) found along stock ridge line - 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. Plan 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. Saplings and > 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: 

Date: 7/23/10

Date: July 19, 2010

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

HSA RRSI - 5C

Work Area: Sub-Section 2A (later renamed Section 4 &amp; 5)

**SURVEYS PERFORMED**

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

**SURVEY FINDINGS**

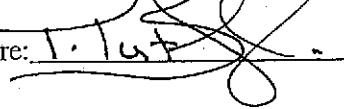
#	Protected Species/ Suitable habitat	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	NONE FOUND.		

**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 parapet except along northeast boundary where it is marked by 3 stakes/flagging.
- No special-status species found within sub-section 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 300 ft of riparian or aquatic habitat.
- Please remind veg clearance crews of item GEN-3 before they arrive at site to SSFL site.

Biologist Signature: 

Date: July 19, 2010

HGL Field Supervisor Signature: 

Date: July 19, 2010

Date: 7/26/10

Sheet 1 of 1

## **BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SC - 6

## ~~SURVEYS PERFORMED~~

ID	Survey Type	Biologist	Expiration
1	Special - sparrow species, suitable habitat, and nesting bird survey	J. Anderson	Mar 1, 2014

## **SURVEY FINDINGS**

#### **NOTES AND RECOMMENDATIONS:**

Biologist Signature: 

Date: 7/26/16

HGL Field Supervisor Signature: Heath Spragg

Date: 7/20/10

Date: 7/26/10Sheet 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	Nov 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:**

BS Tarplant 1111 1111 1111 1111 1111 1111  
 3 → 20

28 Santa Susana Tarplant on and around sandstone rock outcrops.  
 Some poison oak.

\* Some SS Tarplant on rocks not flagged

Biologist Signature: JohnDate: 7/26/10HGL Field Supervisor Signature: Leah SpragueDate: 7/26/10

BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

HSA BPPA - 5C

Portions

Work Area: Sub-section 3A (~~3A~~ 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  
*demarcated*

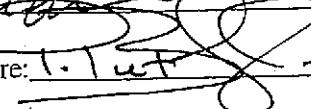
#	Protected Species/ Suitable habitat	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
o	Santa Susana tarplant (5 individuals)	Y	GS-5; VC-1D; SS-1
o	Potentially suitable habitat for vernal pool Branchiopods	Y	GS-3; GSW-10
o	Upland habitat for red- legged frog	N	GEN-11; VC-5; GS-4 ( <del>GEN-11</del> )

## 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 Envirocom 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 ANMs.
- 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 Envirocom biologist shall be present during veg clearance or gamma scanning within this area. Soil sampling in this area should be avoided. It can't be avoided discuss w/ Envirocom biologist before activity.
- Portions of area appear to be within 300 ft. of aquatic or riparian habitats which are upland habitats potentially occurring red-legged frog. This will be verified. See applicable ANMs GEN-11; VC-5; GS-4.

Biologist Signature: 

Date: July 19, 2010

HGL Field Supervisor Signature: 

Date: July 19, 2010

Santa Susana Field Laboratory Area IV And NBZ Radiological Study  
US EPA Region 9

~~Please remind vegetation clearance crews of ANM GEN-3 before beginning~~  
 Please remind vegetation clearance crews of ANM GEN-3 before beginning  
 CCFI 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

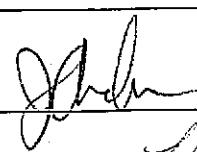
**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana tayplant	Y	VC-10, GS-5; HGC-SMPD pg's 646-647

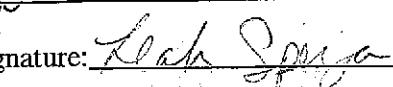
**NOTES AND RECOMMENDATIONS:**

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

Santa Susana

One tayplant on flat terrain in southeast corner of  
section 19, and two tayplants on rock outcrops  
Santa Susana  
in no-mean portion of section.Biologist Signature: 

Date: 8/13/10

HGL Field Supervisor Signature: 

Date: 8/14/10

Date: 8/13/10Sheet 1 of 1**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**Work Area: 5B-1D**SURVEYS PERFORMED**

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

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Brewster's milkvetch (2)	Y	VC-3, HGL-SMP Protective measures <del>GS-1; GS-2</del> PGS G-4 & G-5,
1	Santa Susana tamarant (5)	Y	GS-5, VC-10 HGL-SMP PGS G46:47
1	Cwart live oaks	N	HGL-SMP Vegetation Management Protocols related to native oak trees

**NOTES AND RECOMMENDATIONS:**

- Several quart live oaks. Only understorey branches less than 20% diameter at the base think enough for cut.

Biologist Signature: J. AndersonDate: 8/13/10HGL Field Supervisor Signature: Lori SpringerDate: 8/17/10

Date: 8/13/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 5B-11

**SURVEYS PERFORMED**

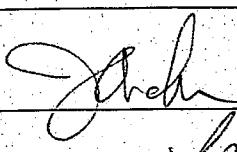
ID	Survey Type	Biologist	Expiration
1	Special-Status Species, suitable habitat and nesting birds	T. Anderson	MAR 1, 2011

**SURVEY FINDINGS**

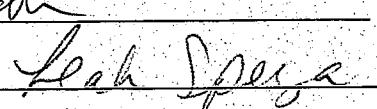
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	No Coast live oaks	N	HGL-SMP Vegetation Management Protocols related to native oak trees

**NOTES AND RECOMMENDATIONS:**

Several coast live oaks. Only undercutting branches less than 30% diameter of main trunk can be cut.

Biologist Signature: 

Date: 8/13/10

HGL Field Supervisor Signature: 

Date: 8/14/10

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

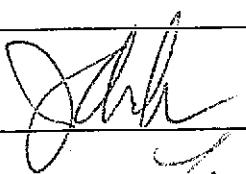
**SURVEY FINDINGS**

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

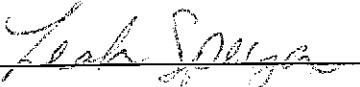
**NOTES AND RECOMMENDATIONS:**

All activities in this area identified as potential Least Bell's Vireo habitat must be delayed until October 1, 2010. Area has been Boundary of HGL area includes all necessary buffers from vireo habitat Least Bell's vireo habitat. Based on discussion w/ Mark Flynn of USFWS. Boundary has been staked and flagged.

- In areas with... section 17 outside of the potential Least Bell's vireo habitat use of the EROS is OK, where feasible. ~~and not cutting~~
- Several coast live oaks. Only undercutting branches less than 2" diameter at main trunk can be cut.

Biologist Signature: 

Date: 8/13/10

HGL Field Supervisor Signature: 

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: <i>amendment to original clearance report dated 8/13/2010 by Jim Anderson</i>	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: 

Date: 9/22/10

Date: 8/26/10Sheet 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	May 1, 2011

**SURVEY FINDINGS**

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

**NOTES AND RECOMMENDATIONS:**

- Coast live oaks - ~~Pruning~~ pruning of lower branches < 2' off main stem only
- Monitoring, biologist shall supervise vegetation clearance, gamma scanning using EPGS or mulle and other project activities involving light or heavy off-road vehicle use due to suitable habitats for Coast Horned Lizard, silver leaf lizard and San Diego desert iguana (species of special concern)

Biologist Signature: J. AndersonDate: 8/31/10HGL Field Supervisor Signature: Leah SpiegelDate: 9-1-10

Date: 8/13/10Sheet 1 of 1**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

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

**SURVEYS PERFORMED**

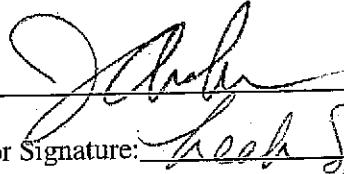
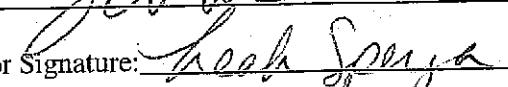
ID	Survey Type	Biologist	Expiration
1	Special status species, unsuitable habitat and nesting birds	J. Anderson	MAR 1, 2011

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana Towlant (1)	Y	GS-5, VC-10; GPM- HGL-SMP pars G-4b-47
1	Coast live oaks	N	HGL-SMP Vegetation Management Plan related to native oaks trees

**NOTES AND RECOMMENDATIONS:**

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

Biologist Signature: Date: 8/13/10HGL Field Supervisor Signature: Date: 8/14/10

Date: 17 Aug 2010

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: HSA - SA - 15 16 and 17 (part)

HSA - SB - 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 Field Laboratory and storage	Y	Do not cut, scan above top
1	Hughley Rd. 16 flagged	Y	Do not cut, scan above top

**NOTES AND RECOMMENDATIONS:**

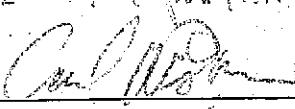
The following areas within HSA - SA were not completed during this survey:  
No areas south of main road were done

Not Done SS-13

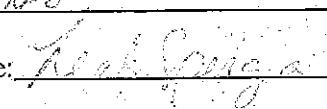
Not Done Portions of SS-17 in NE and SE, and west wall of for west as shown in red on attached map

This Survey included the following areas:

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

Biologist Signature: 

Date: 17 Aug 2010

HGL Field Supervisor Signature: 

Date: 8-17-2010

Date: 8/23/10Sheet 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 tamarisk	Y	VC-10; GS-5
'1	coast live oaks	N	Vegetation Management Protocols in HGL-SMP relevant to native oak trees.
	In high density areas of tamarisks, most all tamarisks flagged.		

**NOTES AND RECOMMENDATIONS:**

- Remaining parts of SA-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 impact activities within 25 ft of the Santa Susana tamarisk.
- Coast live oaks - ~~no~~ pruning of live branches > 20% girth of main stem permitted only.
- Some poison oak in section

Biologist Signature: J. AndersonDate: 8/31/10HGL Field Supervisor Signature: Dick SpiegelDate: 9-1-10

Date: 8/23/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 5A-18

**SURVEYS PERFORMED**

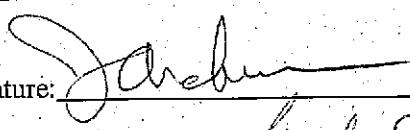
ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011

**SURVEY FINDINGS**

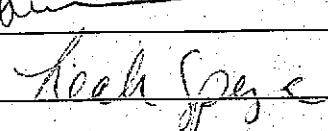
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Santa Susana Tarplant (n 25)	Y	VC-10; GS-5;
1	Coast live oaks	N	Vegetation Management Protocols in HGL-SMP relevant to oak trees.

**NOTES AND RECOMMENDATIONS:**

- Monitoring biologist shall be present during veg clearance / gamma scanning or other impact activities within 25 ft. of this ~~screamer~~ Santa Susana tarplant. The tarplant shall not be cut. See above AIMS.
- Coast live oaks - pruning of lower branches < 20° to growth of main stem permitted only
- Monitoring biologist shall supervise vegetation clearance, gamma scanning using FEL's or mile and other impact activities involving light or heavy off-road vehicle use due to suitable habitats for coast live oak, silver leafed live oak, and San Diego desert ironwood (Special Concern).
- Some poison oak in section.

Biologist Signature: 

Date: 8/31/10

HGL Field Supervisor Signature: 

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	N	NC-10, RS-5
1	Dudleya (a20)	Y	VC-9; Avoid impacts during all activities

**NOTES AND RECOMMENDATIONS:**

- Dudleya/Santa Susana Tarplant - Monitoring biologist shall be present during vegetation clearance / gamma scanning and scanning and other project activities within 75 ft of these species.
- Monitoring biologist shall be present with chain vegetation clearance, gamma scanning using ERGS or similar and other project activities involving light or heavy off-road vehicle use due to suitable habitat for coast burrowing lizard, sitkum tree lizard/lizard, San Diego desert iguana, and Coast patch-nosed snake (Species of Special Concern). Dudleya - Some individuals within polygon on field map may not have been flagged. Avoid impacting species.
- Coast live oaks - pruning of lower branches <20in. girth at main stem permitted only.

- Notes  
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Date: 8/26/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: SA-20

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Special-status, startles, 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 HGL-SMP irrelevant to native oak trees

**NOTES AND RECOMMENDATIONS:**

- Coast live oaks - pruning of lower branches < 20%  
growth of main stem only.
- Monitoring biologists shall supervise vegetation clearance, gamma scanning using ERGs or mule and other non-destructive activities involving light or heavy off-road vehicle use due to suitable habitats for coast horned lizard, silver leafed lizard, San Diego desert iguana and coast patch-nosed snake (Spilogonotus macularius).

Photo  
925  
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Division oak in section.

Biologist Signature: J. Anderson

Date: 8/31/10

HGL Field Supervisor Signature: Reah Spangler

Date: 9-1-10

Date: 8/23/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

Work Area: 5A - 21

**SURVEYS PERFORMED**

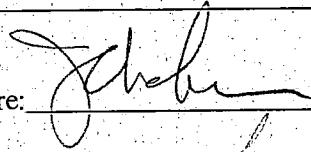
ID	Survey Type	Biologist	Expiration
1.	Special-status Sensitive habitat and nesting birds	J. Anderson	MAR 1, 2011

**SURVEY FINDINGS**

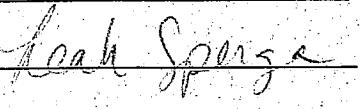
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Coast live oaks	N	Vegetation Management Our focus is related to native oak trees in HBI-smp.

**NOTES AND RECOMMENDATIONS:**

- No special status species found in section 1
- Coast live oaks - pruning of lower branches <20% S/I/T if main stem ~~less~~ only
- Monitoring biologist shall supervise vegetation clearance, Gamma scanning using ERGS or mile and other project activities involving light or heavy off-road vehicle use due to sensitive habitats (Coast horned lizard, Silvery Lizard, San Diego Desert Woodrat (Species of Special Concern))

Biologist Signature: 

Date: 8/31/10

HGL Field Supervisor Signature: 

Date: 9-1-10

Date: 8/23/10Sheet 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	Count live oaks	Y	Vegetation Management Protocols in HOL-SMP relevant to native oak trees.

**NOTES AND RECOMMENDATIONS:**

- Coast live oaks - ~~remove~~ pruning of lower branches <20% girth bt mid stem only.
- Monitoring biologist shall supervise vegetation clearance, gamma scanning using THERS & mule and other project activities involving light or heavy off-road vehicle use due to suitable habitats for Coast horned lizard, Silver leafed lizard, and San Diego desert iguana (1 species). Special concern).

Biologist Signature: J. AndersonDate: 8/23/10HGL Field Supervisor Signature: Kyle SpiegelDate: 9-1-10

Date: 8/23/10

Sheet 1 of 1

## BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

Work Area: SA - 23

### SURVEYS PERFORMED

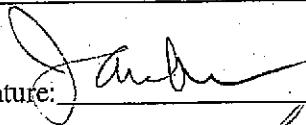
ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat nesting birds	J. Anderson	MAR 21, 2011

### SURVEY FINDINGS

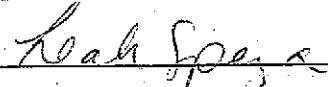
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Toast live oaks	N	Vegetation Management Protocols in HGL-SMP relevant to native oak trees.

### NOTES AND RECOMMENDATIONS:

- Coast live oaks - minimal pruning of lower branches < 20% girth at main stem only.
- Monitoring biologist shall supervise vegetation clearance, ground scanning using ERGS or mule and other direct activities involving light or heavy off-road vehicle use due to suitable habitats for coast horned lizard, silver tree 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 <del>nearcut</del> tree (S only).
1	Malibu baccharis	Y+	Avoid impacts / minimize impacts
1	Coast live oak	N	HL-SMP VEG management. Prune back <del>near</del> to trimming of native trees/ County tree ordinance
1	California black walnut	N	to trimming of native trees/ County tree ordinance
1	Blue elderberry	All	Protect per Native American request - trim under-tree branches only.
#	Artemesia	Y+	Scanning with GEGS or Multi-sensor
1	Coast horned lizard	—	Monitor present during VEG cutting & grazing
	Cactus		

# Only ~~part~~ of plants flagged, ~~not all~~**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 areas (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 impacts, grainna 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 Silverspot Lizard.
- Coast horned lizard captured in SS-113 near section and moved off site, cut hole area IV
- Braunton's milkvetch common on upper slopes & ridge and occasional to sparse button woodland and lower slopes. Malibu v. baccharis appears confined to channel chaparral on upper slopes & ridge.
- Curtisia calcarata near mid wet end of section. Annex GEN-3 required. Because invasive species.
- Horsetail common in coast live oak woodland on mid/lower north-facing slopes.

Biologist Signature: J. Anderson

Date: 9/21/10

HGL Field Supervisor Signature: Allen Sorenson

Date: 9-21-10

Both Braunton's milkvetch & Malibu Baccharis can be difficult to detect w/ GEGS characteristics and dry condition.

Santa Susana Field Laboratory Area IV And NBZ Radiological Study US EPA Region 9

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: SD - 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 millerlatch	Y*	GEN-4; VL-3; Brush cutting hand
1	Malibu Baccharis	Y*	Avoid/minimize impacts to this
1	Coast live oaks	N	HGL-SMP vegetation management
1	Pkt. black walnut	N	Protocols pertaining to trimming h
1	Blue elderberry	N	Protect Native American request
1	White sage	Y*	Protect Native American request
1	Coast horned lizard	—	Monitor present during VES clearance;
1	Santa Susana Yarrow	Y*	VC-10; G's-5 gamma

\* Only a fraction of plants flagged.

**NOTES AND RECOMMENDATIONS:**

- Higher density of Braunton's millerlatch and Malibu baccharis on upper 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 (no above listed resources, because not all millerlatch/baccharis have been flagged) and potential for occurrence of protected state species of concern (coast horned lizard and coast spotted owl) snake, as well as perhaps Sierra Tidbit lizard.
- Coast horned lizard captured in SS-113 near section and moved north to Area IV.
- Braunton's millerlatch common on upper slopes and ridge in eastern portion of section, but otherwise sparse to absent. Malibu baccharis common in chaparral otherwise in giant sage scrub, otherwise absent.
- Poison oak common in the coast live oak woodland on lower/mid slopes.

Biologist Signature:

HGL Field Supervisor Signature:

Date: 9/20/10

Date: 9-21-10

44. Topplants in eastern section near and on sandstone outcrops.

Santa Susana Field Laboratory Area IV And NBZ Radiological Study

US EPA Region 9

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

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
**ENVICOM CORPORATION**

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

**SURVEY FINDINGS**

<b>Survey Section</b>	<b>Protected Resources</b>	<b>Monitor needed?</b>	<b>Applicable Avoidance and Minimization Measures</b>
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.

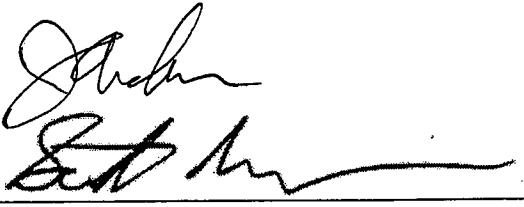
SS-54 consists of approximately 60% paved ground or buildings. The remaining 40% is recently mowed field covered by mostly nonnative vegetation dominated by field mustard (*Hirschfeldia incana*), bur clover (*Medicago* sp.), and grasses. Wildlife seen in the area included Say's phoebe (*Sayornis saya*),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

SS-55 has similar weedy vegetation as SS-54 with a similar dominant species composition as described above. Invasive yellow star thistle (*Centaurea solstitialis*), tocalote (*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 at .

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 due to 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**

Terrain

Work Area: Equipment Test Area

Portion of  
SD-55**SURVEYS PERFORMED**

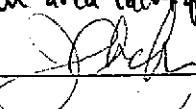
ID	Survey Type	Biologist	Expiration
1	Special-status species, suitable habitat and nesting birds	J. Anderson	MAR 1, 2011
			or following wildfire that burns the testing area, whichever comes first.

**SURVEY FINDINGS**

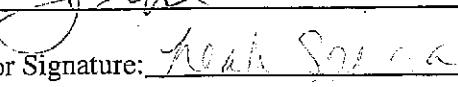
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Critical Habitat ID for Brauntom's milkvetch	N	Please see page 5 for None required
1	Potential coastal California gnatcatcher habitat	N	GEN-8 (Implemented earlier in 2010) Absence <del>seen</del> confirmed by protocol surveys.

**NOTES AND RECOMMENDATIONS:** no portion of

- Test area is within 1 Critical Habitat Unit ID for Brauntom's milkvetch. No Brauntom's milkvetch or other special-status / sensitive biological resources were found in test area boundaries. All vegetation may be cut to 6-18".
- Yellow-star thistle (*Centaura 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, protect-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. Absence of this species has been verified by protocol surveys earlier in 2010.

Biologist Signature: 

Date: 7/28/10

HGL Field Supervisor Signature: 

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

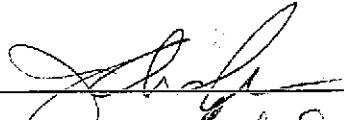
ID	Survey Type	Biologist	Expiration
1	Special-Status Species Sensitive habitat and nesting birds	J. Anderson	MAR 1, 2011

**SURVEY FINDINGS**

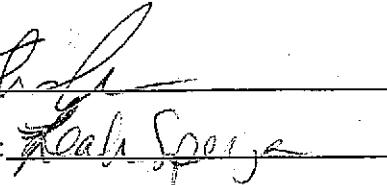
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Potential coastal California gnatcatcher habitat	N	GEM-8 (Implemented earlier in 2010). Absence confirmed by protocol surveys.
1	Critical habitat ID for Brant's milkvetch	N	None required (and no Brant's milkvetch observed 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 is survey area, but not in immediate P
- Yellow-star thistle (*Centaurea solstitialis*) occurs within survey area. Because of the presence of this invasive species, gamma scanning and vegetation clearance, if occurs shall implement GEM-3. Geophysical survey crews do not need to implement GEM-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 Surveillance for nesting birds	T. Anderson	MA 1/2011

**SURVEY FINDINGS**

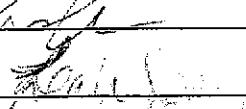
ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Puertorico Parrot California anateletris habitat	N	GEM-5 (Implemented earlier in 2010). Also see confirmed by postural surveys.
1	Critical habitat ID for Brown Hawks milkvelets	N	No requirements. Brown Hawks were not observed in survey area.

**NOTES AND RECOMMENDATIONS:**

- Purpose of survey is clear vicinity of geophysical test strips as well as areas of road access to test strips. However, surveying general survey area as well as detailed maps for survey extent
- Infrastructural development in survey area, but limited to roads and trails.
- No new structures (communications, substations) occurs within survey area. Because of the presence of PIP this invasive species, gamma scanning and vegetation clearance crews shall implement GEM-3. Geological surveys do not need to implement GEM-3 around vehicle areas through vegetal removal via the lead along the location, boundaries of survey area as this is off road contact with the species.

Biologist Signature: 

Date: 8/9/10

HGL Field Supervisor 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 hab. for nesting Birds	J. Anderson	MAR 1, 2011

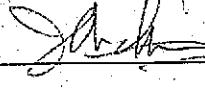
**SURVEY FINDINGS**

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; <del>excavate</del>
1	Coast Live Oaks	N	HGL-SMP Veg Management Protocols
	Coastal	N	Excavate (mark, treat, <del>remove</del> vegetation in zone)
	California Gnatcatcher		Absence Tree removal
	Red Fox		Absent

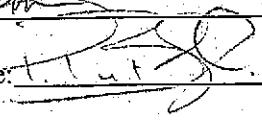
**NOTES AND RECOMMENDATIONS:**

Site is currently targeted for vegetation cutting - (fuel clearance) only. ~~because~~ ~~bentonite~~ Above Areas listed for vegetation clearance; additional areas required if gamma scanning or other activities conducted in area. However, area is outside Area IV Radial Survey Project area.

\* 3 tarplants on work route was not flagged - difficult to access.

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**

Terrain

Work Area: Equipment Test Area

**SURVEYS PERFORMED**

ID	Survey Type	Biologist	Expiration
1	Potential habitat ID	J. Anderson	7/28/2010
	Critical habitat test		7/28/2010
	nesting birds		7/28/2010
			7/28/2010
			7/28/2010

**SURVEY FINDINGS**

ID	Protected Resources	Flagged (Y/N)	Applicable Avoidance and Minimization Measures
1	Potential habitat ID	N	Potential Gnatcatcher None required
	nesting birds		
	Rockเวช		
1	Potential coastal California gnatcatcher habitat	N	GEW-8 (implemented earlier in 2010) Absence confirmed by protocol surveys.

**NOTES AND RECOMMENDATIONS:**

- This area is within Critical Habitat Unit 1D for Western Gnatcatcher. No mammals or seabirds were observed in station surveys. Minimally vegetative areas were found in the test area. All vegetation was cut to 6 inches.
- Prickly Star Thistle (*Centaurium solstitialis*) occurs in testing area. This species is severely invasive and must be monitored to be eradicated to prevent its spread to other areas within SSTL and beyond. Monitoring will be done by protocol surveys and enforcement will be taken for preventing other invader habitat areas to prevent the further spread of seeds.
- Structural debris from concrete debris in eastern portion of site - not removed.
- Portion of test area within area identified as potential habitat for Coastal California gnatcatcher. Absence 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

## **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	Dudieva sp. (3)	Y	VC-9
1	Santa Susana Turtletant (2)	Y	VC-10; <del>VC-11</del>
1	Coast LIVE OAKS	N	H.C.-SHP Very Management intensive for oak trees

#### **NOTES AND RECOMMENDATIONS:**

NOTES AND RECOMMENDATIONS:  
Site is currently targeted for vegetation cutting - (fuel  
clearance) only. ~~Kato~~ <sup>Min</sup> ~~Abuse~~ Abuse Avoid listed  
for vegetation clearance, additional areas required  
if ~~garbage~~ scanning is still required  
undisputed in area. However, area is in Bido Area IV  
not known being draft area!

~~• 3 farplants in rock material not flagged - difficult to access.~~

Biologist Signature: *W. H. Nease*

Date: 7/30/14

HGL Field Supervisor Signature: 

Date: 7/30/10

**QUARTERLY BIOLOGICAL MONITORING REPORT #1**

*OCTOBER 22, 2010*

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**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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whippers; vehicle mower
2	10am - 12pm	SC-4	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whippers
3	10am - 12pm	SC-5	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS <input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whippers; vehicle mower
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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.

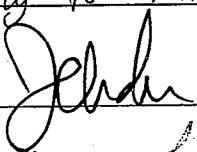
**NOTES AND RECOMMENDATIONS:**

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

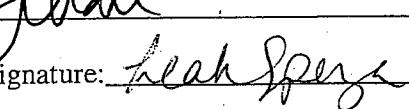
Potential habitat for Riverside and vernal pool fairy shrimp avoided as well. No vegetation cutting necessary within suitable habitat or vicinity to prepare for gamma scanning.

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: 

Date: 7/23/10

Date: 7/23/10

Sheet 1 of 1

BIOLOGICAL RESOURCE MONITORING FORM

## ACTIVITIES MONITORED

ID	Time	Area	Activities Monitored*	Equipment
1	12:00pm - 1pm	SC-4	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Weed wackers; vehicle mower
2	1pm - 2pm	SC-1 <del>2008</del>	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Weed wackers
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

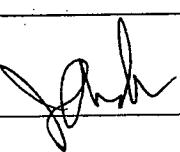
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling,  
MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

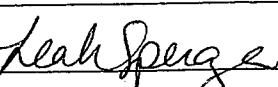
ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Dudleya sp (2)	SC-4	Avoided VG 9	No impacts
1	Coast live oaks	SC-4	Vegetation Management Protocols HGL-Smp	No impacts per Ventura County Tree Protection ordinance Two (2) seedlings cut to 6-18 in.
2	None encountered	SC-1		

## NOTES AND RECOMMENDATIONS:

Two coast live oak seedlings cut to 6-18 inches; saplings and adult trees  
only understory branches (less than 2 1/2" diameter) main trunk cut, as  
necessary to allow easier access beneath canopy for gamma scanning.

Biologist Signature: 

Date: 7/23/10

HGL Field Supervisor Signature: 

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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Weed whacker; vehicle mow
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

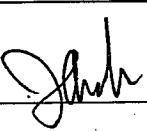
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling,  
 MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

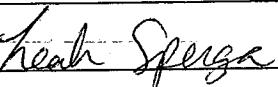
ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian, dry eph. drainages	SC-1	Riparian Protection Measures	Some understory; lower branches of shrubs, trees removed cut

**NOTES AND RECOMMENDATIONS:**

Native shrubs / trees in and adjacent to drainages only understory and lateral branches cut and dead wood removed. Non-native herb cover in drainages cut to 12-18". Native tree stumps Areas outside drainages cut to 6-18".

Biologist Signature: 

Date: 7/26/10

HGL Field Supervisor Signature: 

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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whippers, chipper
2	930 - 1030	SC-8	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Stroller
3	1030 - <del>1000</del> 1000	SC-1	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whippers, chipper
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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

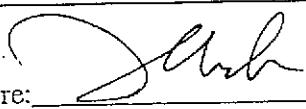
## MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Riparian dry ephemeral creek	SC-1	Riparian Habitat Areas HOL-SMP pgs N-1 & N-3	lower branches of riparian Shrubs / trees cut to allow access areas of gamma scanning
2	Potential suitable habitat for rare branchworts	SC-8	<del>GS-3</del> GS-3	No impact
2	Santa Susana tarplant	SC-8	GS-5	No impact

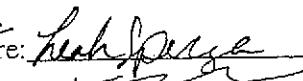
## NOTES AND RECOMMENDATIONS:

Area of seasonal pooling of water in section 8 scanned with stroller. Only one person entered area to minimize soil disturbance. Red 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. 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: 

Date: 7/27/10

HGL Field Sup. Gamma Scanning:

Date: 8-2-10

Santa Susana Field Laboratory Area IV And NBZ Radiological Study  
US EPA Region 9

Date: 7/28/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	900 - 1000	SC-7	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Weed whackers
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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	GEN-2	No impacts
1	(1)	SC-7	VC-3	No impacts

**NOTES AND RECOMMENDATIONS:**

Entered C&P for entire vegetation clearance area on  
the eastern leg of Santa Susana Trail and  
initial reseeding activities are present which was not  
documented previously.

Initial reseeding activities were documented  
on the eastern leg of the trail.

Additional comments or thoughts from the monitoring  
and follow-up field activity.

Biologist Signature: J. JohnsonDate: 7/28/10

HGL Field Supervisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Date: 7/27/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
/	8:00 AM	SC-7	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mule
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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 habitat	SC-7	GS-1, GS-2, GS-5	No impact
1	Potential habitat for Vernal pool marshes/pads	SC-7	NONE	Minor soil disturbance. Take "Urgent" but not suspected.

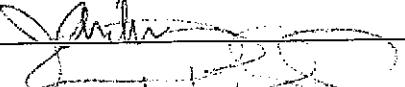
**NOTES AND RECOMMENDATIONS:**

The mule was allowed to pass through area demarcated as potential suitable habitat for vernal pool branchingworts 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 up phase.

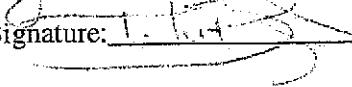
This was unsatisfactory implementation of Avoidance / Minimize him measure GS-3. "Activities shall only be conducted on first, and only activities that do not disturb flora or soil structure will be permitted." Use of mule in this area is confined to low impact and no disturbance of soil.

Biologist running personnel were reminded to consult with biologist prior to entering or conducting activities within demarcated areas as pertains to vernal pool branchingworts and not biologists in charge of activities in those areas.

- If future occurrences of first the vernal pool branchingworts occur all take permit.
- If future occurrences of first the vernal pool branchingworts, the monitor/biologist can request that the monitor/biologist who is in charge of activities in charge of activities in those areas.

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	SC-7	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mule
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

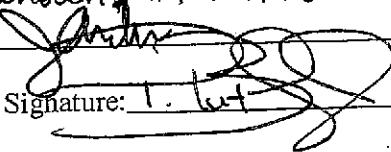
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## 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 branchiopods	SC-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 occurred when the pool was in the dry phase, encroachment.
- 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 ~~where take may occur~~ and that biologist must be present during any activities in these areas.
- If take occurred 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, it is unknown if it was taken, but due to minimal disturbance, Date: 8/2/10 disturbance is not expected.

Biologist Signature: 

Date: 8/2/10

HGL Field Supervisor Signature: 

Date: 8.2.10

Date: 7/30/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	12:11	SC-7	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mic
2	12:15-1:30	SC-7	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Weld impact chain saw shovel
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

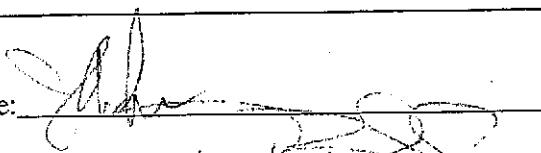
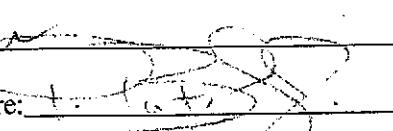
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling,  
 MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**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
2	Santa Susana Tarplant	Fowlard Corral	VC - 1)	No impact
2	Dudleya sp.	Fowlard Corral	VC - 1)	No impact
2	Two tree stumps	Fowlard Corral	Gamma scanning	No impact and no sampling at all.

**NOTES AND RECOMMENDATIONS:**

Fuel infiltration into cattle/horse corral near Building 214. This is now outside Area IV and not planned to be gamma scanned as a part of the Area III Radiological Project.

Biologist Signature: Date: 7/30/10HGL Field Supervisor Signature: Date: 8. 2. 10

Date: 8/2/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	10/15 - 10/16	SC-1	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Ergs f Furke-11 mounted scanner
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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	Fishion wall drainage/ Riparian veg.	SC-1	Avoidance Buffer from Banks - Riparian protection measures HGL-SMP pgs N-1 to N-3	No impact

**NOTES AND RECOMMENDATIONS:**

Ergs used for gamma scanning in areas of SC-1 outside of drainage and riparian vegetation.  
Drainage given 5' ft buffer by ergs which is riparian veg.  
Implement and adjacent to drainage - or wider if necessary.  
Drainage and riparian veg will be scanned w/ shifter/cart  
and rescan at later time.

Biologist Signature: J. R.Date: 8/2/10HGL Field Supervisor Signature: J. R.Date: 8.2.10

Date: 12/10/10

Sheet 1 of 1

## BIOLOGICAL RESOURCE MONITORING FORM

## **ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	900-1100	SC-1	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	LRS Fork-lift mounted
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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## MONITORING RESULTS

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Fluvial channels Savanna vegetat.	SC-1	Avoidance. Buffer from drainage and expansion. H&L-SMP & zoning Protection measures	No impacts

#### **NOTES AND RECOMMENDATIONS:**

Biologist Signature:

Date: 8 / 3 / 15

HGI 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	8/4/10 11:00	SC-1	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	CRGS Fork-lift mounted
2	11:15 - 11:15	SC-7	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	FRGS Fork-lift mounted Scanner
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Scanner
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

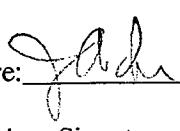
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MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

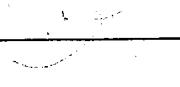
ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Elk antelope nesting	SC-1	Avoidance Fork-lift	No impact
2	Santa Susana buckshot	SC-7	GS-S	No impact
2	brown bear markings	SC-7	Avoidance	No impact

**NOTES AND RECOMMENDATIONS:**

- Slight soil disturbance at SC-7 due to use of CRGS fork-lift
- No significant soil disturbance. Will need to be filled in by USP GPR equipment to minimize soil disturbance when working.
- Avoid CRGS fork-lift impact flower and grass cover (Shade)
- Be careful not to injure plants

Biologist Signature: 

Date: 8/4/10

HGL Field Supervisor Signature: 

Date: 8/4/10

Date: 8/13/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
	1000-1230	SC-1	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mule
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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 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 and riparian vegetation	SC-1	Riparian Protective Measures Hot Striping N-1+N-3	Breakage of a small number of stems on riparian shrubs but no loss of individual shrubs.

**NOTES AND RECOMMENDATIONS:**

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

Biologist Signature: J. SchellDate: 8/13/10HGL Field Supervisor Signature: Leah SpragueDate: 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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Weed whacker, lopper, chainsaw, chipper
2	800-2pm	SB-10	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	" " " "
3	1200-2pm	SB-9	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	same as above plus ERGS
4	1pm-230	SB-14	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whacker, lopper, chainsaw, chipper
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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: G-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: Mark Diers

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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Topper, walk w/line, skid steer
2	0800-130	SB-10	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Topper, walk w/line, skid steer
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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	SB-9	Protective measures on G-46, 47. Avoided	Avoided grass around it trimmed
2	Tarplant, Abramontia galax	SB-10	Pgs G-4, 5, G 46-47 E-2	Oak low branches ~70% trimm. Tarplant and astragalus avoided

**NOTES AND RECOMMENDATIONS:**

All tarplant and *Burmannia 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 <30% of trunk dbh.

Biologist Signature: Bob Johnson

Date: 8/16/10

HGL Field Supervisor Signature: Heath Sprague

Date: 8/18/10

Date: 9/7/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1430	SA-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	choppers, loppers, chainsaw, weedwacker
2	1400-M20	SA-19	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Loggers, backhoe
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	"
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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, Dudleya, Woollynt houses	SA-17	Flagged, avoided	Intact
2	none	SA-19	n/a	-

**NOTES AND RECOMMENDATIONS:**

Done with SA-17 VC.

SA-17 Bird spp observed: canyon wren, common raven, California towhee, rock wren, oak titmouse, baird's sparrow

SA-19 Birds: spotted towhee, oak titmouse

Biologist Signature: Leah SpringerDate: 9/7/10HGL Field Supervisor Signature: Leah SpringerDate: 9-7-10

Date: 8/27/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-900	SA-16	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chopper
2	800-300	5A-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whacker, loppers, chainsaw, chopper
3	910-930	SA-15	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	multi
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Woodrat middens	5A-16	Avoided	Cover reduced.
2	Tarplant, oaks, woodrat nests/middens	5A-17	Tarplant avoided, oaks left standing	Cover reduced, tarplant avoided.
3	Tarplant	SA-15	Monitor present, tarplant avoided	None.

**NOTES AND RECOMMENDATIONS:**

Bl-eared woodrat encountered, had chopper avoid it today. Rat was fairly exposed under sumac stumps.

Biologist Signature: Scott MDate: 8/27/10HGL Field Supervisor Signature: John SR MeldmanDate: 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	17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	<del>ERGS</del> used whether upper, changing.
2	700-300	16	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chimney
3	1315-1345	SC-7	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	ERGS
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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
2	Trees, oaks, woodrat nests	16	Oak trimming guidelines. Woodrat nests left intact	
1	Woodrat nests, oak, tarp	17	Tarp placed around nest	1 tarp (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, tarp not present, no monitor present. Large tracks - possibly ERGS went through here.

Photos 940-941

(2) None

Photos 942-943

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

Photos 936-939

Biologist Signature:

*Smith*

Date: 8/26/10

HGL Field Supervisor Signature:

*Sullivan DR Homan*

Date: 8/26/10

Date: 9/2/2010Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	SA-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Flail: weed wacker, chainsaw,
2	800-300	SA-18	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Lopper, chainsaw, mowier
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1,2	SS tarp ant oaks, wooden middens	SA-17 SA-18	Tarplant avoided, Midden avoided, nois trimmed	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: LettaDate: 9/2/10HGL Field Supervisor Signature: John SpringerDate: 9/3/10

Date: 9/1/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-300	SA-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whackers, loppers, clippers, chainsaw,
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	"
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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 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. Regs.	Some loss of cover for woodrats midden's.

**NOTES AND RECOMMENDATIONS:**

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

Biologist Signature: Ed HDate: 9/1/10HGL Field Supervisor Signature: Leah SwansonDate: 9-1-10

Date: 8/23/10

Sheet 1 of 1

**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	USOJ-0930	SS-15	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	chopper, weed whacker, lopper, chainsaw
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

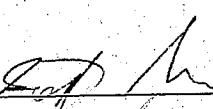
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 MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**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: 8/31/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SA-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chopper, lopper, weed whacker, chainsaw
2	1100-1300	SB-14	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Mule
3	1130-3:00	SA-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Same as #1
4	900-9:20	SA-15	<input type="checkbox"/> VC <input checked="" type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	ERGS
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**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	SA-15	avoided	None

**NOTES AND RECOMMENDATIONS:**

Possible loggerhead shrike calling from SA-19 or 21.

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

Biologist Signature: SDMDate: 8/31/10HGL Field Supervisor Signature: Mark SpringerDate: 8/31/10

Date: 9/3/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	800-1100	SA-18	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chopper, weed wackers, loppers, chain saw
2	800-1300	SA-17	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	(same as above)
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> 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	tarp plant, oaks. <del>oak</del>	SA-18	all tarp plant avoided oaks trimmed per VTA co.	tarp plant intact oaks <del>ok</del>
2	tarp plant, <del>oak</del>	SA-17	all tarp plant avoided <del>oak</del>	tarp plant intact

**NOTES AND RECOMMENDATIONS:**

- Lots of laurel sumac chipped on SW side of SA-17.
- Southern portion of SA-17 nearly done with VC.
- IDI doing excellent job with avoiding resources and minimizing VC damage.

Biologist Signature: JohnDate: 9/3/10HGL Field Supervisor Signature: AshleyDate: 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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Chopper, chainsaw
2	1130-300	SS-15	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	weed whacker, loppers, chainsaw
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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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	See notes.
2	Tarplant, Oaks	SS-15	Avoided tarplant	None

**NOTES AND RECOMMENDATIONS:**

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

Biologist Signature: John M.

Date: 8/20/10

HGL Field Supervisor Signature: Teal J. Long Jr.

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	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	West whalers, Toppers, chugaw, cl upper
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
1	Tarplast, oaks	SS-14	Tarp removed, oaks trimmed per Vtac b. Ordinance.	

**NOTES AND RECOMMENDATIONS:**

- Arborist or more details regarding Ventura Co. Tree Ordinance are needed due to some questions from HGL about trimming. ISA standards not being followed in all cases.
- (bioparc) Dusky-footed woodrat rescued from 2-foot deep 4-inch steel pipe in asphalt, using Snake tongs by Finkerton Security. Woodrat was shot off site, away from ~~water~~ mulch piles.
- Recommended 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 Woodrat.

Biologist Signature: Beth N.

Date: 8/18/10

HGL Field Supervisor Signature: Karen Springer

Date: 8/19/10

Date: 8/19/10Sheet 1 of 1**BIOLOGICAL RESOURCE MONITORING FORM****ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
1	1000 - 200	SS-14	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	Lawnmower, chopper
2	12-200	SS-15	<input checked="" type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	"Weed Whackers"
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

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 MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

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

**NOTES AND RECOMMENDATIONS:**

Briefly discussed need for clarifying tree trimming ordinance w/ Leah, Richard (LDI). (HGL)

Biologist Signature: SmithDate: 8/19/10HGL Field Supervisor Signature: Leah SpringerDate: 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 12<sup>th</sup> St.

Wildlife seen in SS-19:

Big-eared woodrat (*Neotoma macrotis*) (likely)      Calif. Ground squirrel (*Spermophilus beecheyi*)

California whipsnake (*Masticophis lateralis*)

Mourning dove ( <i>Zenaida macroura</i> )	common raven ( <i>Corvus corax</i> )
western scrub-jay ( <i>Aphelocoma californica</i> )	American crow ( <i>Corvus brachyrhynchos</i> )
rock dove ( <i>Columba livia</i> ),	California towhee ( <i>Pipilo crissalis</i> )
Anna's hummingbird ( <i>Calypte anna</i> )	lark sparrow ( <i>Chondestes grammacus</i> )
Oak titmouse ( <i>Baeolophus inornatus</i> )	black phoebe ( <i>Sayornis nigricans</i> )
Spotted towhee ( <i>Pipilo maculatus</i> )	Nuttall's woodpecker ( <i>Picoides nuttallii</i> )
White-breasted nuthatch ( <i>Sitta carolinensis</i> )	Wrentit ( <i>Chamaea fasciata</i> )
Bewick's wren ( <i>Thryomanes bewickii</i> )	California quail ( <i>Callipepla californica</i> )
Acorn woodpecker ( <i>Melanerpes formicivorus</i> )	

Biologist Signature: Scott L

Date: 8/13 9/8/10

HGL Field Supervisor Signature: Leah Spouse

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 grammacus*)  
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:

HGL Field Supervisor Signature:

Date:

**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*)

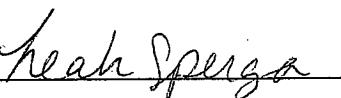
Lark Sparrow (*Chondestes grammacus*)

House Finch (*Carpodacus mexicanus*)

Southern Pacific rattlesnake (*Crotalus viridis helleri*)

Biologist Signature: 

Date: 9/15/10

HGL Field Supervisor Signature: 

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.

9/15/2010

Scott Werner

**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 virgulitea*). 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 viro area.

Wildlife seen onsite:

Desert cottontail (*Sylvilagus audubonii*)

Calif. Ground squirrel (*Spermophilus beecheyi*)

Fulvous harvest mouse (*Reithrodontomys fulvescens*)

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 E.

Date: 9/15/10

HGL Field Supervisor Signature: Leah Springer

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: Leah Spenga

Date: 9/16/10

HGL Field Supervisor Signature: Leah Spenga

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.

9/17/2010

Scott Werner

**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: Scott A

Date: 9/17/10

HGL Field Supervisor Signature: Leah Spenga

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	AMMs 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

9/22/2010

Scott Werner

**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.

9/23/2010

Scott Werner

**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
SD	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.

9/27/2010

Scott Werner

**NOTES AND RECOMMENDATIONS:**

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgulnea*) 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.

9/28/2010

Scott Werner

**NOTES AND RECOMMENDATIONS:**

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgulata*) 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 Braunto'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.

9/29/2010

Scott Werner

**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.

9/30/2010

Scott Werner

**NOTES AND RECOMMENDATIONS:**

Suitable habitat for California Special Concern Species coast horned lizard (*Phrynosoma blainvillii*), coast patch-nosed snake (*Salvadora hexalepis virgulata*) 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.

10/4/2010

Scott Werner

**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: \_\_\_\_\_