



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

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January 6, 2012

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Subject: EPA Radiological Study of the Santa Susana Field Laboratory Area IV and the Northern Buffer Zone; **Quarterly Biological Monitoring Report #5**

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

The United States Environmental Protection Agency (US EPA) is continuing 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 #5 dated October 28, 2011. 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,
- Issues Encountered and Adaptive Management.

The attached report covers EPA project activities during the period from July 1<sup>st</sup> to September 30<sup>th</sup>, 2011. 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) 972-3167 if you have any questions regarding the information provided herein.

Sincerely,

A handwritten signature in black ink, appearing to read "Andrew Bain". The signature is fluid and cursive, with the first name "Andrew" written in a larger, more prominent script than the last name "Bain".

Andrew Bain  
Remedial Project Manager  
SSFL Site

cc: Stephanie Jennings, Department of Energy  
Rick Brausch, California Department of Toxic Substances Control

Attachment: Quarterly Biological Monitoring Report #5 dated October 28, 2011

# QUARTERLY BIOLOGICAL MONITORING REPORT #5

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

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October 28, 2011

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## 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 comprise 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 biological resources protected under other Federal and State laws. These activities include vegetation cutting, gamma scanning, geophysical survey, surface and subsurface soil sampling, groundwater monitoring well sampling, surface water sampling, and sediment sampling. The scope of these project activities is described in further detail in the Biological Assessment (BA) prepared for EPA by HydroGeoLogic, Inc. (HGL), and Envicom Corporation on 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 activities progress. These measures are detailed in Appendices E, G, and N 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 (CERCLA). 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 (AMMs) keyed to each of the proposed activities and Federally listed species with potential to occur within the Action Area. EPA has agreed to implement the various components of the Radiological Survey 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 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. Additional applicable biological resource laws or regulations to which the project is adhering include 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 the fifth 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 1, 2011, to September 30, 2011.

## PROJECT ACTIVITIES AND OPERATIONS

The Area IV Study Area is subdivided into Subareas 3, 5A, 5B, 5C, 5D North, 5D South, 6, 7, 8 North, 8 South, NBZ-W, and NBZ-E (**Figure 2**). The subareas have been divided into 76 Survey Sections (SS) and 23 NBZ Priority Areas. The SSs include roads. To date, EPA has begun conducting all six of the primary project tasks: vegetation cutting, gamma scanning, geophysical surveying, surface and subsurface soil sampling, groundwater monitoring well sampling, and surface water and sediment sampling. The

following is a discussion of the project tasks and the locations in which they have been conducted as observed and monitored for this fifth quarter report.

Vegetation within the study area is being cut or trimmed to allow access to vehicles and equipment, and to provide clearance for gamma scanning equipment at optimum levels of sensitivity. Vegetation cutting protocols are found in Appendix E of the Site Management Plan. Vegetation cutting occurred during this quarterly monitoring period in Subareas 5D South, 8 North, NBZ-W, and NBZ-E (**Figure 2**). Standard equipment used during vegetation cutting includes weed whackers, lopping shears, chainsaws, skid steer with mower and fork-lift attachments, chipper, and front-loading tractor for the safe removal of poison oak (*Toxicodendron diversilobum*) branches.

Gamma scanning is being accomplished using various scanning devices, depending on site conditions. Scanning equipment includes a JCB off-road forklift vehicle (an ERGS machine was formerly used, and the JCB is still referred to as the ‘ERGS’ in this report), a modified Canycom compact walk-behind rubber track-mounted gamma scanner (TMGS), mule-mounted gamma scanning devices (MMGS), a handcart scanner, and handheld scanners. Gamma scanning during this monitoring period has occurred (but has not necessarily been completed) in Subareas 5D South, 7, 8 South, NBZ-W, and NBZ-E (**Figure 2**).

Geophysical surveys have been completed in all Subareas of the project area and were not observed to occur during this monitoring quarter.

Surface and subsurface soil sampling has been conducted in Subareas 5D South, 6, 7, and 8 South. Sampling equipment used for this task includes a mobile drilling/coring rig and hand tools. Support equipment for the soil sampling effort includes tables, chairs, and equipment boxes. The number of sampling points within each SS varies depending on the findings of the Historical Site Assessment (HSA) and the results of the gamma scanning surveys already conducted. The sampling procedure at each sample point involves retrieving a surface sample of approximately one gallon of soil from 0 to 6 inches below ground surface (bgs). A subsurface soil sample consisting of a core sample obtained from a depth of 10 feet bgs is collected at a subset of the surface sampling sites.

Monitoring well sampling was completed during the fourth quarterly monitoring period and therefore was not conducted during the fifth quarterly monitoring period.

## **BIOLOGICAL CLEARANCE SURVEYS, MONITORING, AND IMPACTS**

### **Clearance Survey Methodology**

Before project activities commenced within each of the subareas, one of the USFWS-approved biologists from Envicom conducted clearance surveys to document the presence/absence and location of Federal and State special-status biological resources and riparian habitat. The locations of the resources were 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 3, 4, and 5**. Clearance survey monitoring forms (Appendix 2) were prepared for each clearance survey to document the resources observed and to identify which AMMs included in the Biological Opinion are applicable to future activities occurring within the survey area.

## Biological Monitoring Methodology

One or more of the approved biological monitors from Envicom were present on a daily basis. The monitors attend the safety meeting with crews and monitor project activities. During the reporting period (July 1 to September 30, 2011), the following primary project tasks were conducted: vegetation cutting, gamma scanning, surface and subsurface soil sampling, surface water sampling, and sediment sampling. The biological monitor(s) worked alongside the field crews to point out the locations of special-status biological resources and assist the crews in avoiding impacts. Daily biological monitoring forms (Appendix 3) were prepared to document the activities monitored, any special-status biological resources encountered, and impacts resulting from project activities. Any further recommendations on reducing impacts to biological resources also were reported on this form. In compliance with the Biological Opinion, all project-related crews participated in an environmental education program administered by the USFWS-approved biologist to inform participants as to the sensitive biological resources within the project area and the AMMs to be employed.

## Clearance Survey and Monitoring Results for Federally Listed Species

Of the federally listed species in the Biological Opinion, only one (Braunton's milkvetch) has been positively identified in the study area, although suitable habitat or unidentified individuals that could, in fact, be listed were observed as well. **Table 1** summarizes the locations where these species have been detected during either clearance surveys or monitoring.

### *Braunton's milkvetch (Astragalus brauntonii); Federally Endangered*

During the monitoring period, project activities were conducted throughout a substantial portion of the occupied milkvetch habitat in subareas 5D South and 8 South. Activities within the milkvetch habitat consisted of gamma scanning and soil sampling within much of critical habitat area as well as vegetation clearing in subarea 5D South. These activities were monitored closely as documented in the Biological Clearance Survey Forms and Biological Monitoring Forms included in this report as Appendices 2 and 3 respectively. Monitoring activities included surveying the subareas where activities were to occur, and flagging individual plants or establishing a perimeter buffer area around groups of plants as shown in Appendix 1 **Plate 1A**.

The TMGS and/or ERGS were deployed in SS-51, SS-58, and SS-59 of subarea 5D South and SS-52 of subarea 8 South. The mule-mounted scanner was deployed within occupied milkvetch habitat in SS-51 of subarea 5D South and SS-52 of subarea 8 South. These actions were monitored closely to reduce the impacts to milkvetch plants.

A total of 47 Braunton's milkvetch were impacted during the monitoring period. Impacts to individual Braunton's milkvetch are described in **Table 2**. Most of the impacts were relatively minor and did not result in the "take" of the plant as seen in Appendix 1 **Plate 1B and 1C**. Several seedling milkvetch plants were bent or run over by the scanning equipment (**Plate 1D**) but the stalks were resilient enough to straighten upright in good condition after the impact.

The SSs discussed above are located within the Critical Habitat Unit 1d for Braunton's milkvetch. The primary constituent elements (PCEs) for Braunton's milkvetch (calcium carbonate soils derived from marine sediment, low proportion (<10%) of shrub cover directly around the plant, and chaparral and coastal sage scrub communities characterized by periodic disturbances that stimulate seed germination [e.g., fire, flooding, erosion] and reduce vegetative cover) have not been negatively impacted.

***Dudleya species: Conejo dudleya (Dudleya abramsii subsp. parva [=D. parva]), Santa Monica Mountains live-forever (D. cymosa subsp. ovatifolia [inclusive of D. cymosa subsp. agourensis]), and marcescent dudleya (D. cymosa subsp. marcescens); all Federally Threatened***

None of the Federally or State listed dudleya species have been encountered. Many flowering dudleya individuals were identified as *D. lanceolata* (no protection status), while some dudleya were unidentifiable because they were not flowering at the time of observation. All unidentifiable dudleya were flagged and protected during project activities. During this monitoring period, unidentifiable species were flagged in Subareas NBZ-E (P1D, P1E, P1F,) and NBZ-W (P1A, P1B, P1C, P1D, P1I, P3V, P2O). No flagged dudleya have been harmed during project activities.

***Vernal Pool Branchiopods: Riverside fairy shrimp (Streptocephalus woottoni), Federally Endangered, and vernal pool fairy shrimp (Branchinecta lynchi), Federally Threatened***

The vernal pools in SS-7 described in previous quarterly monitoring reports remain intact and were dry during the monitoring period. Known occupied vernal pool habitat located atop sandstone outcrops in P1C and P3V were noted during clearance surveys. These areas were not encountered during project activities conducted during the fifth quarterly monitoring period. Soil sampling personnel were advised to move a planned sampling point from within to just outside suitable vernal pool branchiopod habitat in the southeastern corner of SS-34. No impacts to the vernal pools or vernal pool branchiopods occurred as a result of EPA's activities during the fifth quarterly monitoring period.

***California red-legged frog (Rana draytonii); Federally Threatened***

Project activities occurred in proximity to two areas identified in the Biological Assessment as potentially suitable habitat for the California red-legged frog. These habitat areas consist of two outfall collection pools in Subareas 6 (SS-38) and 8 (SS-46). A 300-foot buffer was mapped around each of these features using a GIS, and the biological monitor supervised all project activities within the upland buffer area. These buffers extend into NBZ-W and NBZ-E within survey sections P1A and P1D respectively. During the monitoring period, vegetation cutting was conducted in the upland buffer zones within P1A and P1D, but the wetlands were not affected. Vegetation cutting was limited to hand tools within the buffer zone. Gamma scanning activities occurred within subareas 8 South and 5D South (SS-52 and SS-59, respectively), which includes some portion of designated red-legged frog critical habitat. Activities were not observed to occur within the critical habitat area during this monitoring period. No red-legged frogs were observed.

***Least Bell's vireo (Vireo bellii pusillus); Federally Endangered***

No monitored work activities were conducted within the Least Bell's Vireo (LBV) habitat areas in Subarea 5B (SS-12) and Subarea 6 (SS-26) during the monitoring period, which occurred during the LBV nesting season (March 15-September 30). No LBV have been observed in the project area during clearance surveys or monitoring. A focused survey to determine presence or absence of LBV was not conducted in SS-12 and SS-26 as no work was scheduled in these areas.

***California gnatcatcher (Poliioptila californica californica); Federally Threatened***

A second yearly protocol survey for California gnatcatcher was conducted between March 15 and June 30, 2011 for areas defined as having potentially suitable habitat. The results of the 2011 survey were negative with no individuals observed. EPA activities resumed in the potential habitat area after the survey was completed. No California gnatcatchers have been detected on site during the implementation of the EPA study.

## **Fifth Quarterly Clearance Surveys and Monitoring Results for Non Federally-listed Protected Biological Resources (excludes non-special status nesting birds)**

The Santa Susana tarplant is the only State-listed species observed during the clearance surveys and biological monitoring. However, other State-protected biological resources have been observed. The locations of Santa Susana tarplant and other State-protected biological resources within the Action Area are illustrated on **Figures 3, 4, and 5**. The following is a more detailed description of the observations and impacts associated with State-protected biological resources. A summary of the State-Sensitive resource observations listed by Survey Section is shown in **Table 3**.

### ***Santa Susana tarplant (Deinandra minthornii); State Rare, CNPS List 1B.2***

This species is locally common in sections of Area IV with sandstone outcrops (**Table 2**). No plants were impacted by project activities during the fifth quarterly monitoring period (**Table 4**).

### ***Malibu baccharis (Baccharis malibuensis); CNPS List 1B.1***

Malibu baccharis was recorded in Subareas 5D South and 8 South (SS-49, SS-51, SS-52, SS-58, SS-59) on the hilly terrain at the extreme southern end of the study area. It is the codominant species with chamise in most of the unburned northern mixed chaparral on SS-49. Malibu baccharis exhibits a flexible growth form whereby it is not easily damaged by project equipment when properly marked (**Plate 2A**). As described in **Table 4**, approximately 39 plants were damaged or destroyed during vegetation cutting or gamma scanning activities conducted this quarter.

### ***Plummer's mariposa lily (Calochortus plummerae); CNPS List 1B.2***

This species is found in suitable habitat throughout the project area. It was observed to be flowering during project activities in 5D South, 6, 8 South, NBZ-W, and NBZ-E. All specimens observed were protected from project activities (**Plate 2B**).

### ***Slender mariposa lily (Calochortus clavatus var. gracilis); CNPS List 1B.2***

All *Calochortus clavatus* identified were keyed to be the unprotected *Calochortus clavatus* var. *pallidus*. Nonetheless, all observed plants were protected from the minimal vegetation cutting and gamma scanning occurring during the fifth quarterly monitoring period.

### ***Non-flowering mariposa lilies (Calochortus sp.)***

Most mariposa lilies were flowering and could be identified to the species during the fifth quarterly monitoring period. Non-flowering lilies were observed only in Subareas 5D South (SS-59), NBZ-W (P1C), and NBZ-E (P1D). All unidentified mariposa lilies were protected from project activities, with the exception of 1 non-flowering lily that was destroyed during gamma scanning in SS-51 (**Table 4**).

### ***Southern California black walnut (Juglans californica); CNPS List 4.2; Protected by Ventura County Trimming Ordinance***

Southern California black walnut trees were observed during the fifth quarterly monitoring period in Subareas 8 South, 5D South, NBZ-W, NBZ-E (SS-49, SS-51, SS-52, SS-58, SS-59, P1A, P1B, P1C, P1F, P1I, P1J, P2O, and P3V). Several mature trees were trimmed in these sections per the Ventura County Trimming Ordinance (**Plate 2C**).

***Coast horned lizard (Phrynosoma blainvillii); State Species of Special Concern***

Suitable habitat for this species was identified in most of the undeveloped survey sections of the study area, and coast horned lizards were observed during the fifth quarterly monitoring period in Subareas 5D South and NBZ-W (SS-51, SS-58, P1B, P1I). Coast horned lizards observations are depicted using an “Occupied Coast Horned Lizard Habitat” polygon in **Figures 3, 4, and 5** for these Subareas. Three coast horned lizards were handled and relocated nearby out of harm’s way (**Table 4**) (**Plate 2D**).

***Silvery legless lizard (Anniella pulchra pulchra); State Species of Special Concern***

Suitable habitat was identified in many of the undeveloped survey sections of the study area. No silvery legless lizards were observed during this quarterly monitoring period.

***Coast patch-nosed snake (Salvadora hexalepis virgultea); State Species of Special Concern***

Suitable habitat was identified in many of the undeveloped survey sections of the study area. No coast patch-nosed snakes were observed during this quarterly monitoring period.

***Cooper’s Hawk (Accipiter cooperii); State Watch List***

Cooper’s hawks were recorded in Subarea 5D South (SS-58), NBZ-W (P1I), and NBZ-E (P1D). No nests or nesting behaviors were observed during the fifth quarterly monitoring period.

***Golden eagle (Aquila chrysaetos); Fully Protected (Federal and State), State Watch List***

A resident pair of golden eagles successfully raised two young from a nest site located on the SSFL property boundary in the NBZ-E. The eaglets fledged in June 2011 and were not observed roosting at the nest site during this monitoring period. The juvenile eagles continued to be seen occasionally in the area through the end of the fifth quarterly monitoring period.

***Rufous hummingbird (Selasphorus rufus); Federal Bird Species of Conservation Concern***

Rufous hummingbirds are primarily found in Ventura County during spring migration en route to nesting grounds in the northwestern U.S. and western Canada. None have been impacted by project activities.

***Allen’s hummingbird (Selasphorus sasin); Federal Bird Species of Conservation Concern***

Allen’s hummingbirds nest in Ventura County and are common in the project area. No nests were found during the monitoring period and no Allen’s hummingbirds were impacted by project activities.

***Loggerhead Shrike (Lanius ludovicianus); State Species of Special Concern***

Loggerhead shrikes were observed in Subareas 5A, 5D North, and 8 North. Loggerhead shrikes inhabit open country with short vegetation and breed in isolated trees or large shrubs. No nesting behavior was exhibited by these individuals.

***Nuttall’s woodpecker (Picoides nuttallii); Federal Bird Species of Conservation Concern***

Nuttall’s woodpeckers nest in cavities and are commonly seen in woodland areas of the project area. No nests were observed or impacted by project activities during the fifth quarterly monitoring period.

***Oak titmouse (Baeolophus inornatus); Federal Bird Species of Conservation Concern***

Oak titmice are common in oak woodland habitats in the study area. They nest in tree cavities and inhabit nearly every SS that contains mature coast live oaks. No nests were found or impacted by project activities during the monitoring period.

***White-tailed kite (Elanus leucurus); Fully Protected Species (State)***

White-tailed kite flyovers were documented on two occasions during monitoring. They are uncommon residents in open grasslands, valley oak savannas, marshes, and agricultural areas. These raptors hunt by hovering while searching for their prey, which generally consists of voles. No known nests of this species were documented during these observations or impacted by project activities during the fifth quarterly monitoring period.

***Yellow warbler (Dendroica petechia brewsteri); Federal Bird Species of Conservation Concern***

In southern California, yellow warblers mainly nest in riparian woodlands after spending the winter in Mexico and other southern latitudes. No nests of this species were observed or impacted by project activities during the fifth quarterly monitoring period.

***Southern California rufous-crowned sparrow (Aimophila ruficeps canescens); State Watch List***

Southern California rufous-crowned sparrows 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 recorded in Subareas NBZ-W and NBZ-E (P1A, P1F, P1I) during the monitoring period, but no nests were found.

***San Diego desert woodrat (Neotoma lepida intermedia); State Species of Special Concern***

Suitable habitat was identified in much of the study area, especially areas that contain shrubby vegetation and rocky outcrops. San Diego desert woodrats were observed during this monitoring period in Subarea NBZ-W (P1A, P1I). Individuals and nest structures of this species were not harmed by project activities.

**Clearance Surveys and Fifth Quarterly Monitoring Results for Protected Nesting Birds**

Native bird species nesting in the study area are protected under several different laws at the State and Federal level, depending on the species. These laws include the Federal Endangered Species Act, Federal Migratory Bird Treaty Act, Federal Bald and Golden Eagle Protection Act, California Endangered Species Act, and California Department of Fish and Game Code Sections 3503, 3503.5, 3511, and 3513. At least 104 native bird species have been recorded in the study area since biological studies in support of the EPA Radiological Study began in 2010.

Bird nests were located using standard techniques such as observing nesting behavioral cues and conducting random searches of vegetation. Although searches were conducted for all nests regardless of location in the activity area, an emphasis was placed on shrub-nesting and ground-nesting species that could be directly impacted by vegetation cutting or mowing equipment. Because of the highly cryptic nature of bird nests, clearance surveys conducted during the nesting bird season were detailed and intensive when surveying in and around dense vegetation. When active nests were found, the biologist would establish a buffer zone within which project activities were restricted. Buffers ranged in size from as little as 10 to 20 feet for small songbirds nesting near well traveled areas to as much as 1,300 feet for golden eagles. The shape and size of the nest buffer depended on the tolerance of the bird to human activity, the type of activity proposed, the nest stage, and the topography and density of vegetation

surrounding the nest. Nests were then monitored by a biologist during project activities and the nest buffer modified if necessary based on behaviors observed. In addition, buffers were left intact if vulnerable fledglings had left the nest but were still in the area under parental care.

Most of Subareas 5D South and 8 South had been subjected to vegetation cutting during 2011; however, virtually none of this area had been scanned by spring 2011, thus allowing a large amount of herbaceous and shrubby vegetation to grow back. This vegetation re-growth created highly suitable habitat for nesting birds that would require re-cutting to enable operation of the most sensitive scanning equipment. Due to an abundance of observed bird nests, EPA activity was essentially prohibited in SS-51, SS-52, and SS-58 during the previously reported quarter until the nesting season began to wane in late June.

**Table 5** lists the active nests found during the fourth quarterly monitoring period that continued to be active and monitored during the fifth quarterly monitoring surveys. Due to additional protection measures for nesting birds that were implemented as an adaptive management strategy and appropriate buffer areas established around nesting sites, in addition to the monitored area having fewer active nests during this period as the nesting season was ending during this quarter of monitoring, no impacts to nesting birds occurred during the fifth quarterly monitoring period as shown in Table 5.

#### **Fifth Quarterly Clearance Surveys and Monitoring Results for Riparian Habitat**

Riparian habitat areas were noted in monitoring areas of subarea NBZ-W (SS-P1A, SS-P1B, SS-P1C, SS-P1I). These areas are ephemeral drainages that are currently dry. Recommendations were given to limit vegetation clearance and the use of the skid steer in these areas. It was noted that some siltation of the creek bed resulted from the vegetation clearance and gamma scanning activities; however, the excess soil is to be removed following activities in this area. **Table 6** summarizes activities within the riparian habitat areas that occurred during the fifth quarterly reporting period.

### **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. However, during the last quarterly monitoring period, as an adaptive management strategy, EPA implemented more robust measures to protect nesting birds than those referenced in AMM VC-1. Due to the significant potential impacts to nesting birds created by the vegetation clearing component of the project, EPA has determined that nesting bird surveys should be conducted no more than 3 to 5 days before vegetation cutting activities begin because birds can build nests and lay eggs in a few days if undisturbed by human activity (such as during a weekend break in project activity). Additionally, throughout the nesting season, biological monitors are now provided at least 24 to 48 hours notice to allow sufficient time to complete a thorough survey for nests before vegetation cutting or other activities are conducted. These additional conditions are considered to have provided adequate protections for nesting birds as no nesting birds were noted to be impacted during this quarterly reporting period.

EPA considers all other terms and conditions in the Biological Opinion to enhance the protection of Federally listed and State-Listed/Sensitive species to be adequate based on the project implementation to date.

## **Tables**

**Table 1**  
**List of Federally Listed Resources and Critical/Suitable Habitat**  
**Observed in Survey Sections during the Fifth Quarterly Monitoring Period**

<b>Species/Resource</b>	<b>Survey Sections</b>	<b>Subareas</b>
Braunton's milkvetch	SS-49, SS-51, SS-52, SS-58, SS-59	8 South, 5D South
Braunton's milkvetch Critical Habitat Unit 1D	SS-51, SS-52, SS-58, SS-59	5D South
<i>Dudleya</i> sp.	P1A, P1B, P1C, P1D, P1E, P1F, P1I, P2O, P3V	NBZ-W, NBZ-E
Occupied vernal pool branchiopod habitat (unidentified branchiopods)	P1C, P3V	NBZ-W
Suitable vernal pool branchiopod habitat	SS-34	6
Red-legged frog potentially suitable habitat	P1A, P1D	NBZ-W, NBZ-E
Red-legged frog Critical Habitat	SS-52, SS-59	8 South, 5D South
Coastal California Gnatcatcher potential habitat	SS-39, SS-43, SS-48, SS-49, SS-50, SS-51, SS-52, SS-58, SS-59, P1A, P1B, P1C, P2O, P1I	7, 8 South, 8 North, 5D South, NBZ-W

**Table 2**  
**List of Federally Listed Resources Impacted**  
**During Fifth Quarterly Monitoring Period**

Species/ Resource	Survey Section	Date Recorded	Associated project activity <sup>1</sup>	Impact	Description
Braunton's milkvetch	SS-58	7/18/11	VC	6 plants damaged	6 plants slightly damaged by weed whackers, but not destroyed
Braunton's milkvetch	SS-58	7/19/11	VC	1 plant damaged	Small plant knocked over during vegetation cutting
Braunton's milkvetch	SS-58	7/19/11	GS	2 plants damaged	Mature plants damaged by ERGS
Braunton's milkvetch	SS-51	7/22/11	VC	5 plants damaged	Three plants stepped on, but not uprooted or severed. Secondary stems of two plants were severed
Braunton's milkvetch	SS-51	7/27/11	GS	10 plants damaged	Damaged during use of TMGS
Braunton's milkvetch	SS-52	7/28/11	VC	1 plant destroyed	Severed near the base by weed whacker
Braunton's milkvetch	SS-51	8/4/11	GS	1 plant damaged	Impacts to plants by MMGS
Braunton's milkvetch	SS-52	8/4/11	GS	8 plants damaged	Impacts to plants by MMGS
Braunton's milkvetch	SS-51	8/11/11	GS	1 plant damaged	Damaged by TMGS during previous day's activity
Braunton's milkvetch	SS-52	8/11/11	GS	7 plants damaged	Damaged by TMGS
Braunton's milkvetch	SS-51	8/16/11	GS	4 damaged and 1 destroyed	Impacts to plants by MMGS

<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, SS = Soil Sampling

**Table 3**  
**List of Non-federally Listed Resources Observed during the Fifth Quarterly Monitoring Period**  
**(grouped by area/subarea)**

Species/Resource	Survey Section	Subarea
Santa Susana tarplant	SS-17, SS-36, SS-38, SS-39, SS-58, P1A, P1B, P1C, P1D, P1E, P1F, P1I, P1J, P2O, P3V	5D South, 6, 7, NBZ-W, NBZ-E
Malibu baccharis	SS-49, SS-51, SS-52, SS-58, SS-59	8 South, 5D South
Potential special-status mariposa lilies	SS-59, P1C, P1D	NBZ-W, NBZ-E
Plummer's mariposa lily	SS-38, SS-39, SS-49, SS-51, SS-52, SS-58, SS-59, P1A, P1B, P1D, P1E, P1F, P1J	5D South, 6, 7, 8 South, NBZ-W, NBZ-E
Southern California black walnut	SS-49, SS-51, SS-52, SS-58, SS-59, P1A, P1B, P1C, P1F, P1I, P1J, P2O, P3V	8 South, 5D South, NBZ-W, NBZ-E
Coast horned lizard	SS-51, SS-58, P1B, P1I	5D South, NBZ-W
Nesting birds	SS-17, SS-38, SS-48, SS-50, SS-51, SS-52, SS-58, SS-59, P1A, P1D, P1E, P1F, P1I, P1J	5D South, 6, 8 South, 8 North, NBZ-W, NBZ-E
Cooper's hawk	SS-58, P1D, P1I	5D South, NBZ-W, NBZ-E
Loggerhead Shrike	SS-15, SS-43, SS-56	5A, 5D North, 8 North
Oak titmouse	Observed throughout study area	all
White-tailed kite	SS-58, P1A, P1B	5D South, NBZ-W
San Diego desert woodrat	P1A, P1I	NBZ-W
Southern California rufous-crowned sparrow	P1A, P1F, P1I	NBZ-W, NBZ-E
Riparian habitat	P1A, P1B, P1C, P1I, P3V	NBZ-W

**Table 4**  
**List of Non-federally Listed Resources Impacted during the Fifth Quarterly Monitoring Period**  
**(excludes non-special status nesting birds)**

Species/Resource	Survey Section	Date Recorded	Associated project activity <sup>1</sup>	Impact	Description
Coast horned lizard (1 lizard)	SS-58	7/15/11	Clearance survey	Relocated	Moved 40 feet east to within existing nesting bird buffer
Coast horned lizard (1 lizard)	P1I	8/22/11	GS	Relocated	Moved 100 feet away to uncut chaparral
Coast horned lizard (1 lizard)	P1B	8/26/11	VC	Relocated	
Malibu baccharis	SS-51	7/22/11	VC	2 plants damaged	Main stem of one plant scarred by weed whacker. Secondary stem of another plant broken by weed whacker.
Malibu baccharis	SS-51	7/27/11	GS	10 plants damaged	Damaged during use of TMGS
Malibu baccharis	SS-51	8/4/11	GS	2 plants damaged	Impacts to plants by MMGS
Malibu baccharis	SS-52	8/4/11	GS	24 plants damaged	Impacts to plants by MMGS
Malibu baccharis	SS-52	8/11/11	GS	1 plant damaged	Damaged by TMGS
Potential special-status mariposa lily	SS-51	7/27/11	GS	1 plant destroyed	Destroyed during use of TMGS
Southern California black walnut	SS-49, SS-51, SS-52, SS-58, SS-59, P1A, P1B, P1C, P1F, P1I, P1J, P2O, P3V	July - September	VC	Trimmed	Unknown number of mature trees trimmed per Ventura County trimming guidelines

<sup>1</sup> VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling

**Table 5**  
**List of Active Bird Nests Monitored in the Study Area**  
**During the Fifth Quarterly Monitoring Period**

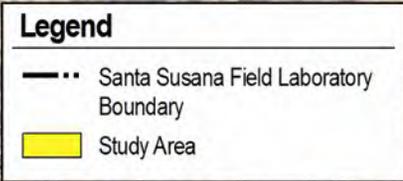
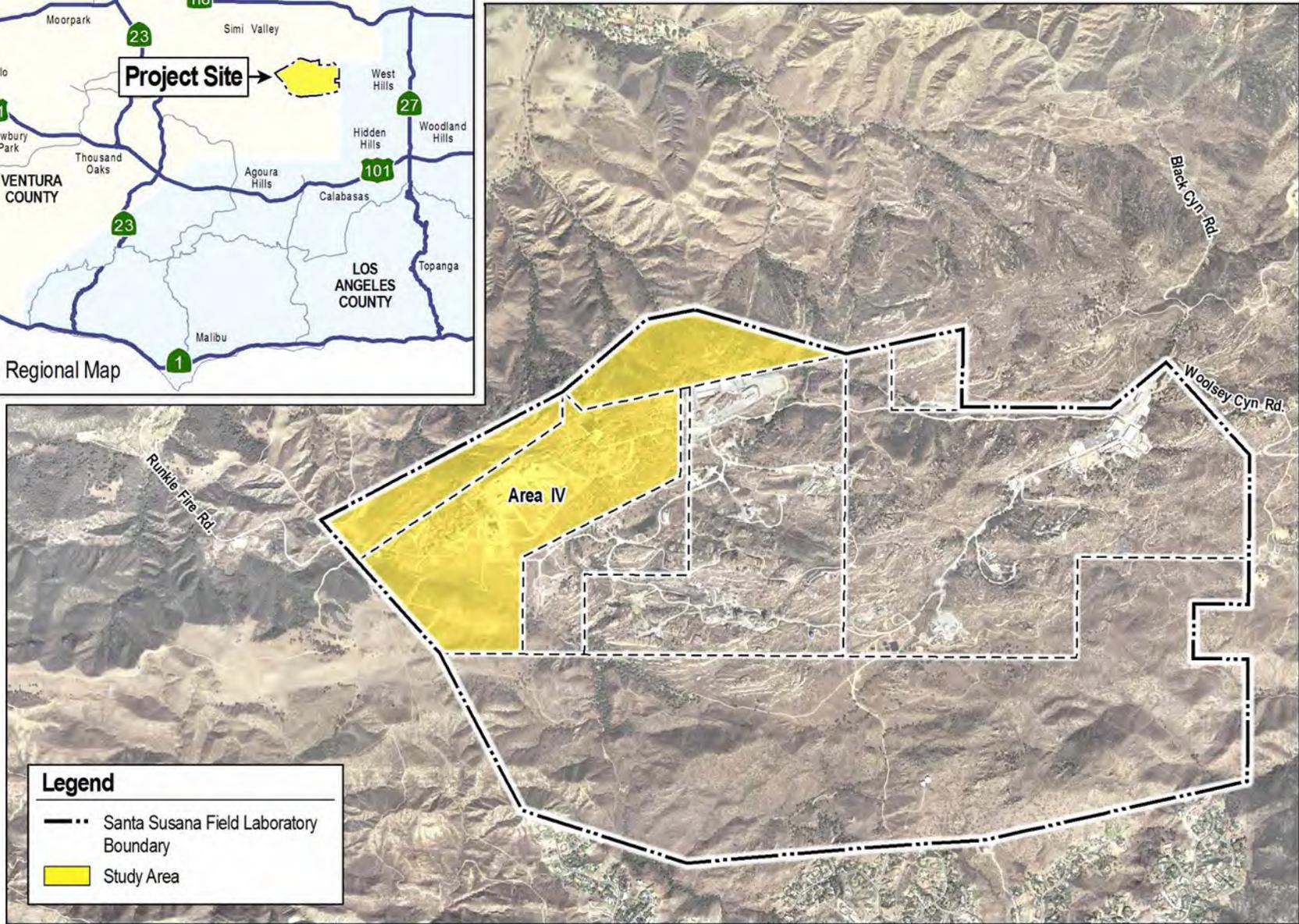
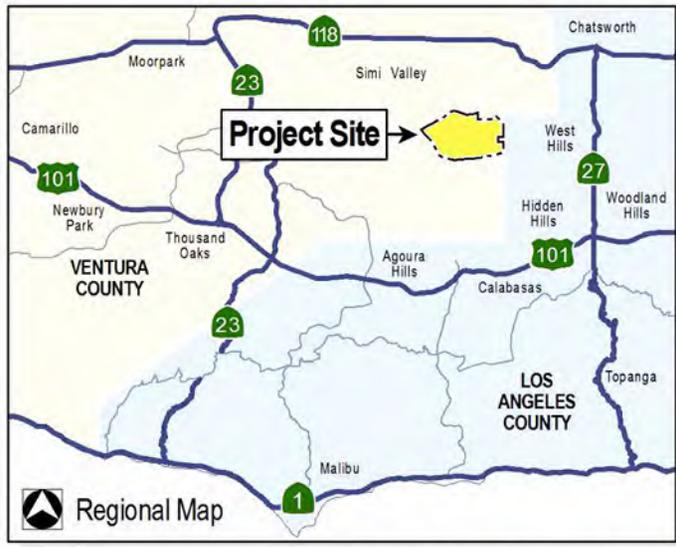
Common Name	Survey Section	Subarea	Date recorded	Impacts
Phainopepla	PIF	NBZ-E	7/5/11	None
California towhee	P1D	NBZ-E	7/5/11	None
Spotted towhee	SS-58	5D South	7/14/11	None
Blue grosbeak	SS-58	5D South	7/14/11	None
Spotted towhee	SS-58	5D South	7/15/11	None
Lazuli bunting	SS-58	5D South	7/15/11	None
Lark sparrow	SS-51	5D South	7/19/11	None
House finch	SS-58	5D South	7/22/11	None
Lesser goldfinch	SS-58	5D South	7/26/11	None
Lesser goldfinch	SS-58	5D South	7/27/11	None
Mourning dove	SS-51	8 South	7/27/11	None
Lesser goldfinch	SS-59	5D South	7/28/11	None
Northern mockingbird	SS-59	5D South	7/28/11	None
House finch	SS-48	8	8/2/11	None
Mourning dove	P1A	NBZ-W	8/16/11	None

**Table 6**  
**List of Activities Conducted within Riparian Habitat**  
**during the Fifth Quarterly Monitoring Period**

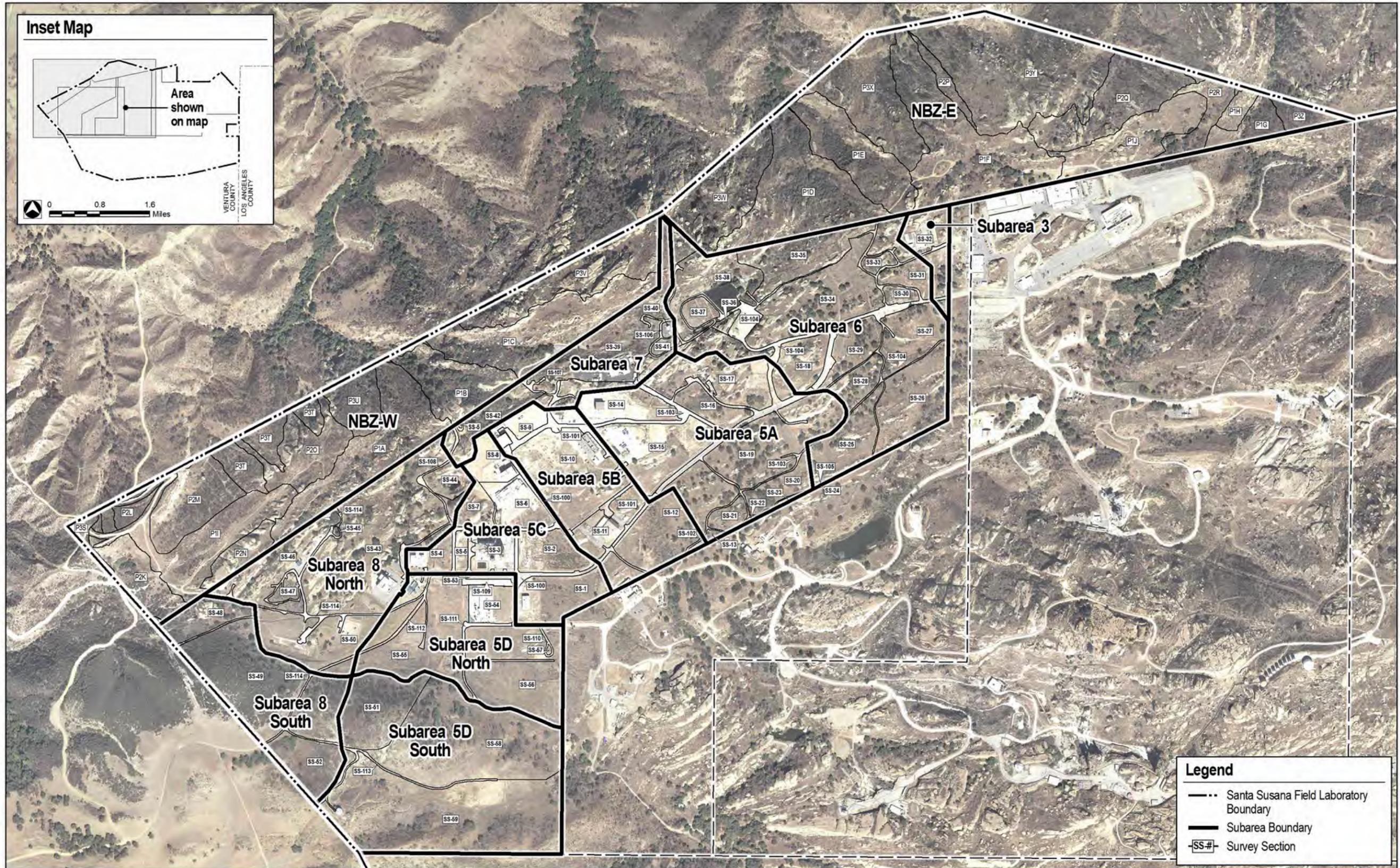
Location	Description	Description of Activities Performed*	Significant Impacts
P1A	Ephemeral drainages	VC, GS	Vegetation selectively trimmed; vegetation clearance and gamma scanning resulted in some siltation of dry creek bottoms after several crossings – soil will be removed following completion of activities in this area. Also, heavy build-up of loose soil near but outside of creek bottom. Impacts resulted in restrictions on use of skid steer in and near ephemeral drainages.
P1B	Ephemeral drainages	VC, GS	Vegetation selectively thinned; vegetation clearance and gamma scanning activities resulted in some siltation of dry creek bottoms after several crossings – soil will be removed following completion of activities in this area.
P1C	Ephemeral drainages	VC	Vegetation selectively thinned
P1I	Ephemeral drainages	VC	Vegetation selectively trimmed
*VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling			

**APPENDIX 1**

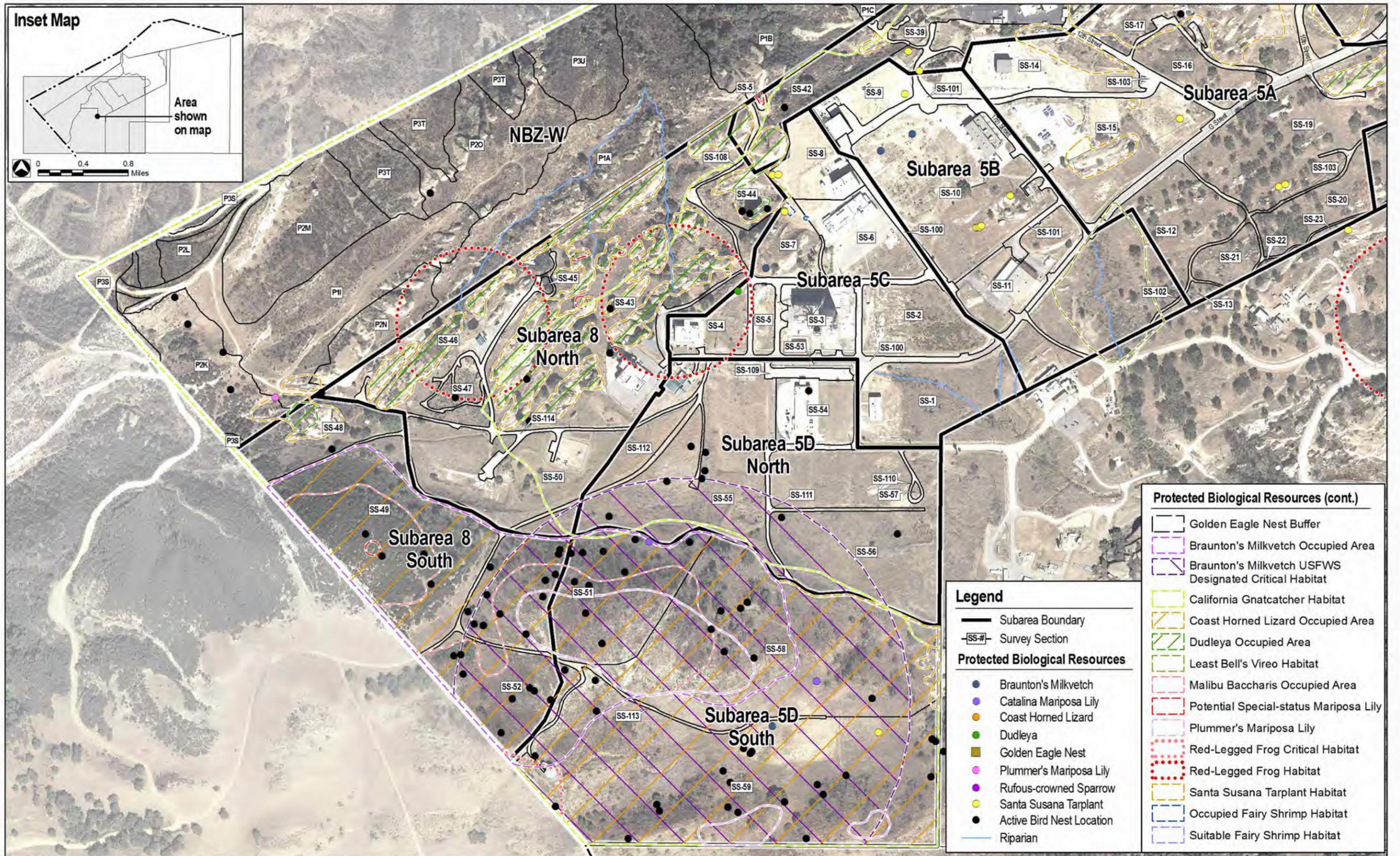
**FIGURES AND PHOTO PLATES**



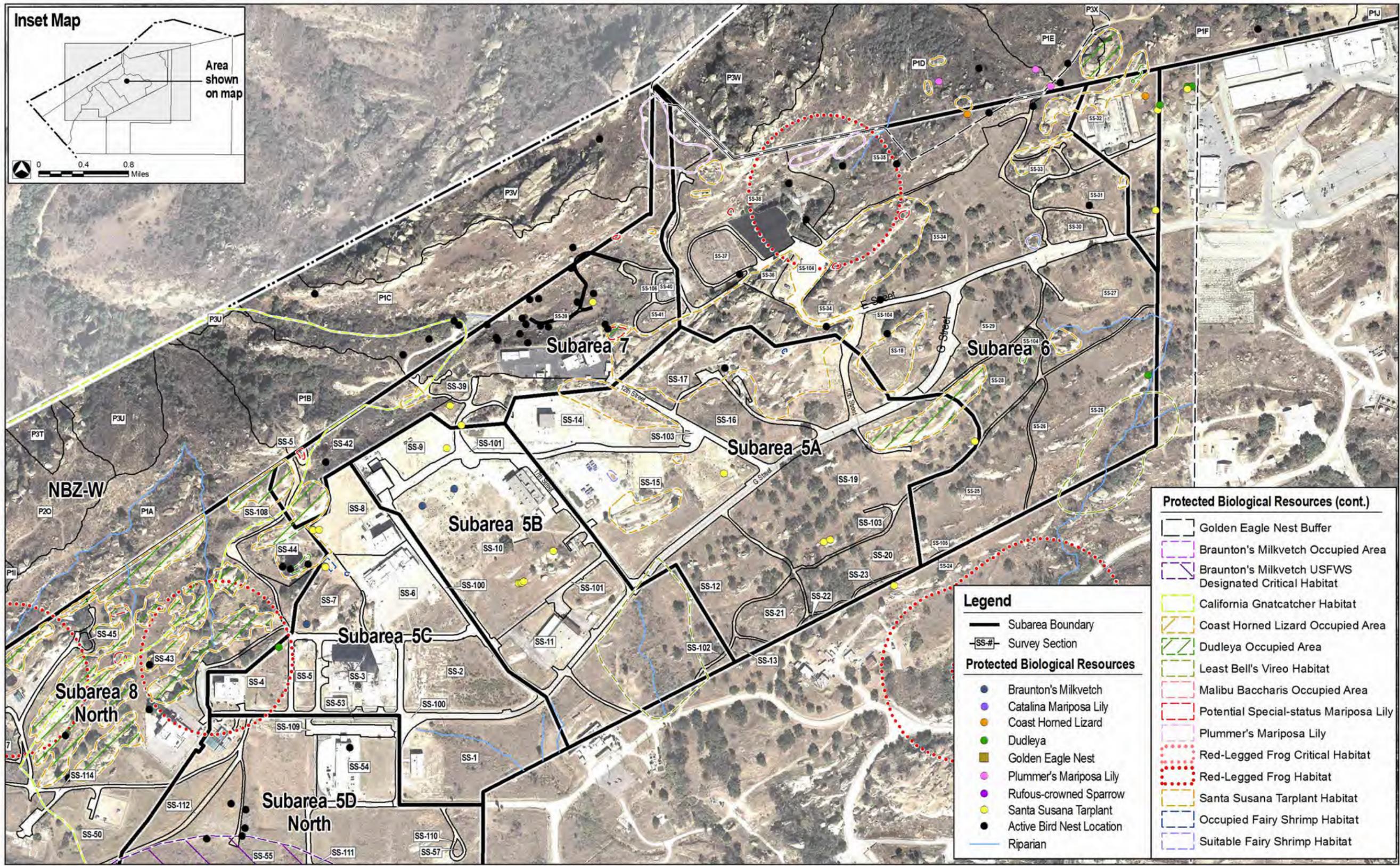
Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.



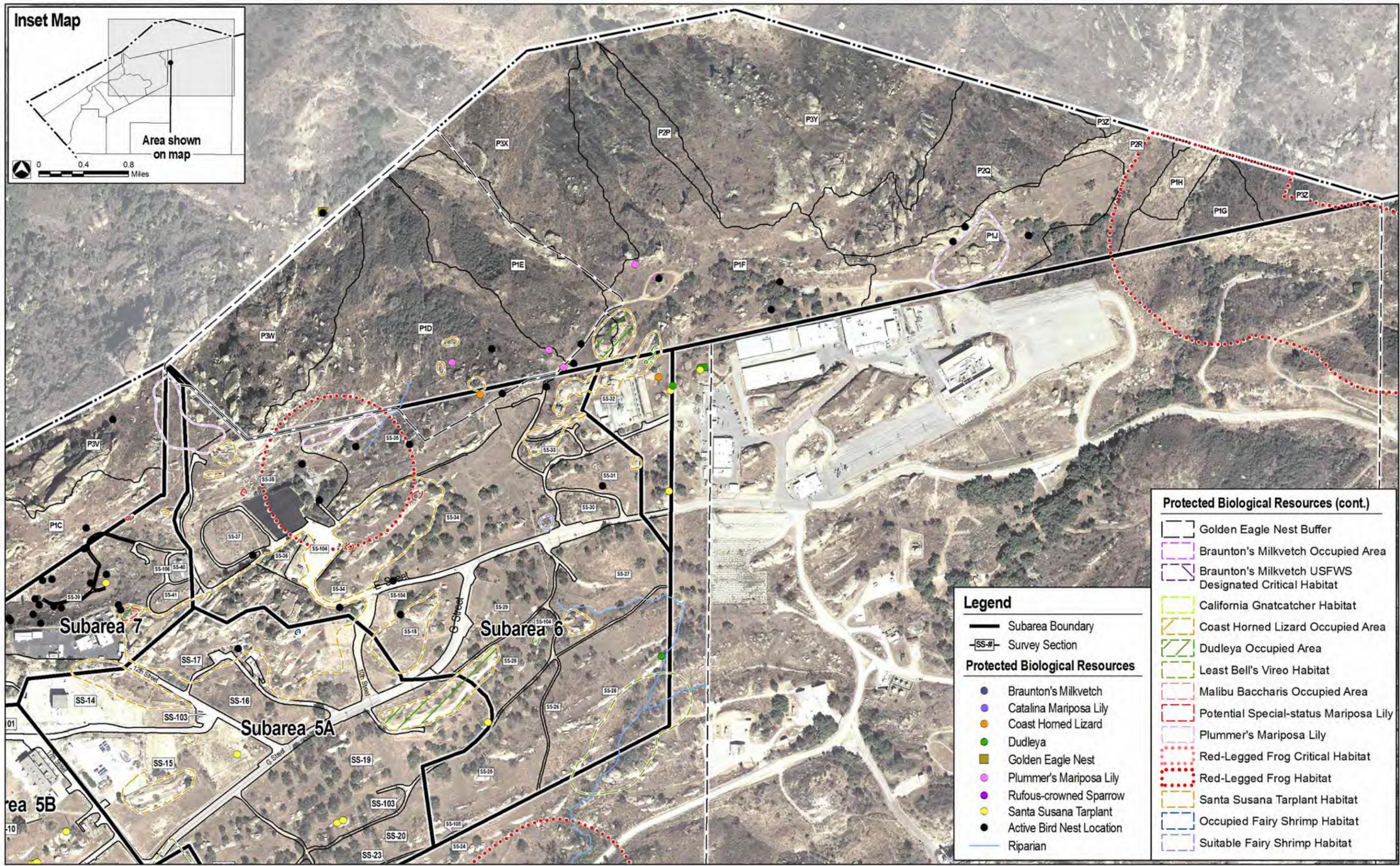
Aerial Source: CIRGIS, 2007.



Aerial Source: CIRGIS, 2007.

- Protected Biological Resources (cont.)**
- Golden Eagle Nest Buffer
  - Braunton's Milkvetch Occupied Area
  - Braunton's Milkvetch USFWS Designated Critical Habitat
  - California Gnatcatcher Habitat
  - Coast Horned Lizard Occupied Area
  - Dudleya Occupied Area
  - Least Bell's Vireo Habitat
  - Malibu Baccharis Occupied Area
  - Potential Special-status Mariposa Lily
  - Plummer's Mariposa Lily
  - Red-Legged Frog Critical Habitat
  - Red-Legged Frog Habitat
  - Santa Susana Tarplant Habitat
  - Occupied Fairy Shrimp Habitat
  - Suitable Fairy Shrimp Habitat

- Legend**
- Subarea Boundary
  - Survey Section
- Protected Biological Resources**
- Braunton's Milkvetch
  - Catalina Mariposa Lily
  - Coast Horned Lizard
  - Dudleya
  - Golden Eagle Nest
  - Plummer's Mariposa Lily
  - Rufous-crowned Sparrow
  - Santa Susana Tarplant
  - Active Bird Nest Location
  - Riparian



Aerial Source: CIRGIS, 2007.



**Plate 1A** - Several Braunton's milkvetch plants surrounded by tape perimeter during vegetation clearing activities, July 20, 2011.



**Plate 1B** - Braunton's milkvetch plants damaged by ERGS in SS-58, July 19, 2011.



**Plate 1C** - Braunton's milkvetch plant damaged during gamma scanning activities in SS-51, August 11, 2011.



**Plate 1D** - Braunton's milkvetch stepped on but not uprooted or severed in SS-51, July 22, 2011.



**Plate 2A** - Malibu baccharis flagged prior to scanning activities in SS-52, August 11, 2011.



**Plate 2B** - Plummer's Mariposa lily, July 13, 2011.



**Plate 2C** - Southern California black walnut trees after trimming in SS-59, August 1, 2011.



**Plate 2D** - Coast horned lizard SS-58, July 15, 2011 (relocated to an existing nesting bird buffer).

**APPENDIX 2**

**FIFTH QUARTER  
BIOLOGICAL CLEARANCE SURVEY FORMS**

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/1/2011	Survey Section (SS): P1D (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 7/8/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0700	End time: 1030

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1D	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1F	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D	Dudleya	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D	Santa Susana tarplant	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1D	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

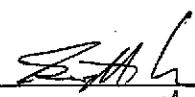
Continued survey of Geophysical survey area in P1D.

Wrentit nest has fledged. Spotted towhee carrying food down canyon, out of proposed work area. Immature Cooper's hawk in area.

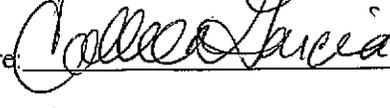
Dudleya lanceolata confirmed on site but some unidentifiable plants are flagged. Santa Susana tarplant around some rocks as well.

Numerous fledglings seen throughout area (California towhee, spotted towhee, house finch, black-headed grosbeak) but no new nests.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/1/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 7/5/2011	Survey Section (SS): P1F (partial), P1D (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 7/12/2011	Survey Type: Nesting birds, special-status species and habitats
Start time: 0700	End time: 1030

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1F	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1F	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D	Dudleya	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1F	Santa Susana tarplant	Y	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1F	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1D, P1F	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

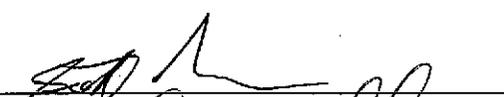
**NOTES AND RECOMMENDATIONS:**

Continued survey of P1F in eastern geophysical zone and P1D at western end of geophysical zone.

P1F: California quail nest still active; female sitting tight on nest. New phainopepla nest with nestlings, 10 ft up in coast live oak, UTM 343270E, 3789829N. Uphill and outside of geophysical zone.

P1D: new California towhee nest w/ 3 eggs, 3 ft up in coast live oak at eastern edge of geophysical zone. UTM 342908E, 3789747N. Possibly a second wren tit territory at this nest as well. Plummer's mariposa lilies found around UTM 342922E, 3789768N while marking buffer for towhee nest.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/5/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

<b>Date:</b> 7/7/2011	<b>Survey Section (SS):</b> SS-56 (partial), P1F (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> 5D North, NBZ-E
<b>Expiration:</b> 7/14/2011	<b>Survey Type:</b> Nesting birds, special-status species and habitats
<b>Start/end time:</b> 0700-0815 (SS-56); 0830-1040 (P1F)	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1F	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1F	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
P1F	Dudleya	Y	Y	VC-1, GS-1, SS-1, SS-2
P1F	Santa Susana tarplant	Y	Y	VC-1, GS-1, SS-1, SS-2
P1F	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1F, SS-56	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Follow-up survey of SS-56 for SS and P1F in geophysical zones for VC etc.

SS-56: no new nests although blue grosbeak, lazuli buntings, house finches singing/foraging in area. Blue elderberry present (protected tree).

P1F: Lesser goldfinch nest in poison oak below outfall still has 1 nestling with pin feathers – needs several more days to fledge. Protected coast live oaks here. Within other GP zone, California quail nest has fledged based on pattern of egg shell fragmentation. Area also surveyed east above road loop and is ready for VC. Plummer's mariposa lilies, Santa Susana tarplant, and Dudleya nearby on rocks.

P1F supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/7/11

HGL Field Supervisor Signature: 

Date: 7/7/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/11/2011	Survey Section (SS): P1F (partial)
Biologist: Scott Werner	Subarea: NBZ-E
Expiration: 7/18/2011	Survey Type: Nesting birds, special-status species and habitats
Start/end time: 0815-1010	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1F	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
P1F	Rufous-crowned sparrow	N	N	VC-1, GS-1, SS-1, SS-2
P1F	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1F	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Follow-up survey of P1F in geophysical zones for VC etc.

Lesser goldfinch nest in poison oak below outfall is done – bird appears to have fledged. This outfall area is released for VC etc.

Phainopepla nest near buildings at S edge of NBZ-E is still active with at least 2 nestlings. House finches copulating and carrying nest material to buildings. I cleared the area upslope of the outfall and marked the survey boundary with green flags. Vegetation at based of buildings not cleared yet due to bird-nesting potential. Rufous-crowned sparrow heard NE of road loop that had the quail nest.

P1F supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/11/11

HGL Field Supervisor Signature: 

Date: 7/11/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

<b>Date:</b> 7/12/2011	<b>Survey Section (SS):</b> P1A, P1I (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> NBZ-W
<b>Expiration:</b> 7/19/2011	<b>Survey Type:</b> Nesting birds, special-status species and habitats
<b>Start/end time:</b> 0745-0900	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1A, P1I	Nesting bird habitat	N	Y	VC-1, GS-1, SS-1, SS-2
P1A ✓	Plummer's mariposa lily	Y	N	VC-1, GS-1, SS-1, SS-2
P1A, P1I	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1A, P1I	Protected trees (coast live oak, blue elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

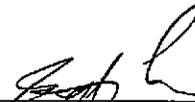
**NOTES AND RECOMMENDATIONS:**

Follow-up survey of easternmost geophysical zone (which overlaps P1A and P1I) in NBZ-W for VC etc.

Former phainopepla nest is no longer active. A single Plummer's mariposa lily was found and flagged in the southwestern corner of P1A (may actually be located in P2N).

Boeing has already cleared some of the access road to the groundwater monitoring well. Several old nests observed along the road.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/12/11

HGL Field Supervisor Signature: 

Date: 7/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/14/2011	Survey Section (SS): SS-58 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 7/21/2011	Survey Type: Nesting birds, special-status species and habitats
Start/end time: 0715-1440	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-58	Nesting birds ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Plummer's mariposa lily ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Braunton's milkvetch ✓	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-58	Malibu baccharis ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Coast horned lizard occupied habitat	N	Y	VC-1
SS-58	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Protected trees (coast live oak, blue elderberry, walnut) ✓	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Surveying western half of SS-58 for upcoming VC and GS.

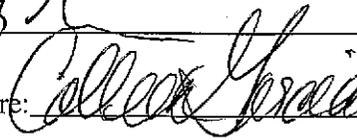
Spotted towhee nest with 3 eggs, placed at base of stem-clump of poison oak, UTM 342231E, 3788586N. Female incubating. Blue grosbeak nest 3 ft up in Hirschfeldia near road between SS-58, SS-56. 3 eggs, UTM 342156E, 3788661N. Likely same pair that had been nesting nearby in milk thistle clump – if so that nest was likely predated due to lack of fledglings and short period elapsed between nests. Nest buffers for these nests will be established tomorrow.

Plummer's mariposa lily flowering in abundance in chaparral above woodland. Calochortus clavatus fruiting at UTM 342167E, 3788594N.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/14/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Date:</b> 7/15/2011	<b>Survey Section (SS):</b> SS-58 (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> 5D South
<b>Expiration:</b> 7/22/2011	<b>Survey Type:</b> Nesting birds, special-status species and habitats
<b>Start/end time:</b> 0700-1500	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-58	Nesting birds ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Plummer's mariposa lily ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Braunton's milkvetch ✓	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-58	Malibu baccharis ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Santa Susana tarplant ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Coast horned lizard occupied habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

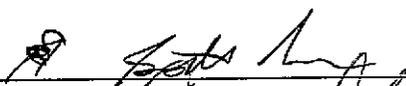
Surveying rest of SS-58 for upcoming VC and GS.

New spotted towhee nest w/ 1 egg, 3 ft up in coast live oak 'shrub.' UTM 342114E, 3788587N. Possibly new California towhee nest near road, looking intact but empty (possible getting ready to lay eggs), but was heavily trimmed/compromised and removed by biologist. Lazuli bunting nest with 2 eggs but no attending female located 3 ft up in toyon at UTM 342244E, 3788616N. Not sure if active - eggs are not warm. Several old nests seen in eastern portion of SS.

Coast horned lizard seen along 'road' in N-central SS-58 in scrub near coast live oaks. Relocated 40 feet east to within existing bird nest buffer because VC crew has started cutting in area.

Flowering white sage flagged at request of Native American monitor.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/15/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/18/2011	Survey Section (SS): SS-51 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 7/25/2011	Survey Type: Nesting birds, special-status species and habitats
Start/end time: 1000-1120	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-51	Nesting bird habitat ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Plummer's mariposa lily ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Braunton's milkvetch ✓	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-51	Malibu baccharis ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Coast horned lizard occupied habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Starting survey of SS-51 for upcoming VC and GS. Eastern portion of SS covered but will need to continue survey tomorrow.

Most flagging from last year on protected plants has disintegrated; today am flagging as many milkvetch, baccharis as possible. No active nests found, many old nests found, including inactive blue grosbeak nest where I suspected one during May but never located.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: SAW

Date: 7/18/11

HGL Field Supervisor Signature: Colleen Garcia

Date: 7/29/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 7/19/2011	Survey Section (SS): SS-51 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 7/26/2011	Survey Type: Nesting birds, special-status species and habitats
Start/end time: 0700-1040	

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-51	Nesting bird habitat ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Plummer's mariposa lily ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Braunton's milkvetch ✓	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-51	Malibu baccharis ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Coast horned lizard occupied habitat – 2 obs ✓	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Protected trees (coast live oak, blue elderberry, walnut) ✓	Y/N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Continuing survey of SS-51 for upcoming VC and GS. Moving from the east half, westward.

Most flagging from last year on protected plants has disintegrated; today I am flagging as many milkvetch, baccharis as possible. Plummer's mariposa lily is abundant and in bloom.

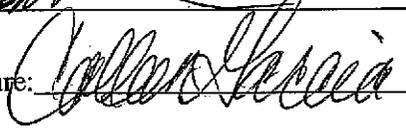
New lark sparrow nest found in chaparral above oak woodland. This area has already been scanned via MMGS so it shouldn't create much of an obstacle to scanning. Nest is on ground in base of chamise, 2 nestlings, UTM 341910E, 3788596N. Western wood-pewee displaying aggressive territorial behavior but no nest found in area.

2 coast horned lizards observed.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 7/19/11

HGL Field Supervisor Signature: 

Date: 7/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/20/2011	Survey Section (SS): SS-59 (partial)
Biologist: Scott Werner	Subarea: 5D South
Released for EPA activities? No	Survey Type: Nesting birds, special-status species and habitats
Expiration: n/a	Start/end time: 0700-0800

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Braunton's milkvetch	Y	N*	VC-1, GS-1, SS-1, SS-2

\* in enclosure

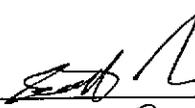
**NOTES AND RECOMMENDATIONS:**

Surveying remnant milk thistle/tree tobacco patch in central 'valley' of SS-59.

Active lazuli bunting nest with 3 young nestlings, 3 ft up in dead milk thistle at N edge of thicket. UTM 342085E, 3788469N. Blue grosbeaks are done nesting but are feeding fledglings in main thistle patch.

Area is still restricted to project activities.

Nearby construction fencing enclosure still contains Braunton's milkvetch. It is well marked and scanning has already occurred around it.

Biologist Signature: 

Date: 7/20/11

HGL Field Supervisor Signature: 

Date: 8/29/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 7/21/2011	Survey Section (SS): SS-51 (partial)
Biologist: Scott Werner	Subarea: 8 South
Released for EPA activities? Yes	Survey Type: Nesting birds, special-status species and habitats
Expiration: 7/28/2011	Start/end time: 0700-0830

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-51	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-51	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Coast horned lizard occupied habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Continuing (brief) survey of SS-51 for upcoming VC and GS. Removing old bird nest buffer stakes, flagging milkvetch, baccharis.

Area supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: \_\_\_\_\_


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

7/21/11

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

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

8/29/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 7/22/2011	Survey Section (SS): SS-58 (partial)
Biologist: Scott Werner	Subarea: 5D South
Released for EPA activities? No	Survey Type: Nesting bird check
Expiration: n/a	Start/end time: 0700-0830

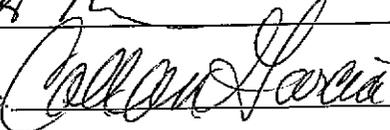
### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-58	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-58	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Coast horned lizard occupied habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

All nests recently described for SS-58 are still active.

New house finch nest far up in coast live oak where previous cutting and scanning occurred. Nest has loud nestlings and is 25 feet up, UTM 342083E, 3788704N. EPA activities do not appear to have negatively impacted nest, which is to be expected of this species and this particular nest location.

Biologist Signature:   
HGL Field Supervisor Signature: 

Date: 7/22/11  
Date: 9/29/11

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 7/27/2011	Survey Section (SS): SS-51 (partial), SS-59 (partial)
Biologist: Scott Werner	Subarea: 8 South, 5D South
Released for EPA activities? Yes	Survey Type: Nesting birds, special-status species and habitats
Expiration: 8/3/2011	Start/end time: 1100-1230

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-51, SS-59	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51, SS-59	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51, SS-59	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-51, SS-59	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-51, SS-59	Coast horned lizard occupied habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51, SS-59	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-51, SS-59	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

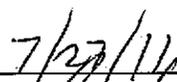
Surveying SE SS-59 and southern SS-52 for any nesting birds and flagging protected plants for upcoming GS and VC.

No new nests.

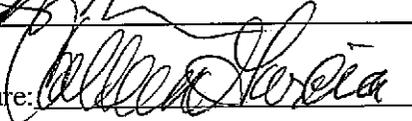
Biologist Signature: \_\_\_\_\_



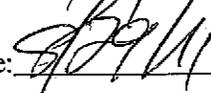
Date: \_\_\_\_\_



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



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



# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

<b>Date:</b> 7/27/2011	<b>Survey Section (SS):</b> SS-58 (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> 5D South
<b>Released for EPA activities?</b> Yes (partial)	<b>Survey Type:</b> Nesting birds
<b>Expiration:</b> 8/3/2011	<b>Start/end time:</b> 0700-0935

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-58	Nesting bird habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-58	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Coast horned lizard occupied habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Checking bird nests and surveying for any other nests in SS-58.

Spotted towhee nest on east side of plot is empty – rattlesnake coiled up next to nest. This buffer has been removed.

Blue grosbeak nest: young have fledged but are still in area being fed, cutting not recommended until Monday 8/1/2011.

Spotted towhee nest on top of hill: young fledgling out of nest, possibly prematurely, being fed by parent, cutting not recommended here as well until Monday 8/1/2011 at earliest, but biologist will need to conduct survey so that young bird is not harmed by EPA activity.

Previously undiscovered lesser goldfinch nest found 15 ft up in coast live oak with 4 loud nestlings at UTM 342109E, 3788662N. Buffer established for scanning but it appears that VC has not negatively affected nest.

↓ Loggerhead shrike calling from SS-56.

↓ Juvenile Cooper's hawk seen in SS-58.

Biologist Signature: 

Date: 7/27/11

HGL Field Supervisor Signature: 

Date: 7/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/28/2011	Survey Section (SS): SS-59 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 8/4/2011	Survey Type: Nesting birds, special-status species and habitats
Start-End time: 0930-1115	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Nesting birds	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Occupied horned lizard habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Nesting bird habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1
SS-59	Braunton's milkvetch	Y	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

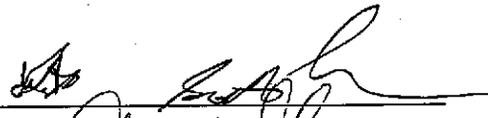
Surveying western portion of SS-59 in uncut nest buffered areas.

New lesser goldfinch nest with eggs 12 feet up in walnut tree at UTM 341957E, 3788374N, in previously cut area just SW of existing coast live oak/walnut patch. Nest is so close to this patch that it will still not be able to be cut yet.

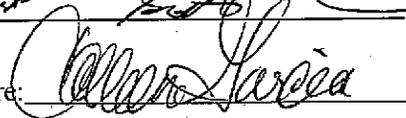
New northern mockingbird nest 10 feet up in burned coast live oak S of nest described above (previously cut area as well). 4 eggs. UTM 341927E, 37883580N.

Pacific-slope flycatcher seen foraging in heavily shaded walnut patch.

No additional areas released for cutting today.

Biologist Signature: 

Date: 7/28/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 7/29/2011	Survey Section (SS): SS-58 (partial), SS-59 (partial)
Biologist: Scott Werner	Subarea: 5D South
Expiration: 8/5/2011	Survey Type: Nesting birds, special-status species and habitats
Start-End time: 0700-1215	

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-59	Plummer's mariposa lily	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-58, SS-59	Occupied horned lizard habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58, SS-59	Nesting bird habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58, SS-59	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-58, SS-59	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1

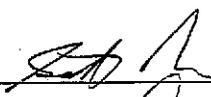
**NOTES AND RECOMMENDATIONS:**

SS-58: taking brief look at spotted towhee nest patch to ensure birds are not attempting to re-nest prior to VC.

SS-59: cleared existing nest buffers in eastern portion of SS including thistle/tree tobacco/mulefat patch in central flat area. Some fruiting Plummer's mariposa lilies (n=4) seen and flagged within protected area where they were growing in vegetative form in April/May. No other sensitive plants besides trees and no nests observed.

Mowing still not permitted except in open grassy areas due to young birds and potentially missed nests in area.

Merlin hunting above SS-59.

Biologist Signature: 

Date: 7/29/11

HGL Field Supervisor Signature: 

Date: 7/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Date:</b> 8/1/2011	<b>Survey Section (SS):</b> SS-59 (partial)
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> 5D South
<b>Expiration:</b> 8/8/2011	<b>Survey Type:</b> Nesting birds, special-status species and habitats
<b>Start time:</b> 0700	<b>End time:</b> 0900

**SURVEY FINDINGS**

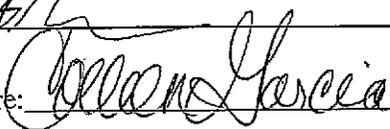
<b>Survey Section</b>	<b>Protected Resources</b>	<b>Flagged?</b>	<b>Monitor needed?</b>	<b>Applicable Avoidance and Minimization Measures</b>
SS-59	Occupied horned lizard habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Nesting bird habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
SS-59	Protected trees (coast live oak, blue elderberry, walnut)	Y/N	Y	VC-1

**NOTES AND RECOMMENDATIONS:**

Surveyed large uncut nest buffer in central SS-59 (just south of the large thistle/tree tobacco/mulefat nest buffer patch).  
~~No-nesting-activity-seen-today. Area-is-okay-to-cut.~~

Biologist Signature: 

Date: ~~8/1/11~~ 8/1/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**  
 ENVICOM CORPORATION

Date: 8/5/2011	Survey Section (SS): P1I (partial)
Biologist: Scott Werner	Subarea: NBZ-W
Released for EPA activities? Yes	Survey Type: Special-status species and habitats, nesting birds
Expiration: 2/1/2012	Start/end time: 0930-1230

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1I	Santa Susana Tarplant	Y	Y	VC-10, GS-1, SS-1, SS-2
P1I	Dudleya	Y	Y	VC-9, GS-1, SS-1, SS-2
P1I	False indigo bush	Y	Y	VC-9, GS-1, SS-1, SS-2
P1I	Protected trees (coast live oak, elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1I	So. Cal. Rufous-crowned sparrow	N	N	VC-1, GS-1, SS-1, SS-2
P1I	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

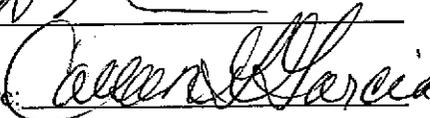
Surveying SW end of P1I that was restricted due to nesting birds and outside of priority Geophysical Survey area.

False indigo bush flagged as protected (host plant for California dogface [*Zerene eurydice*], official state insect).

Lawrence's goldfinch observed.

Rufous-crowned sparrow observed in canyon on north side P1I.

Site supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard.

Biologist Signature:   
 HGL Field Supervisor Signature: 

Date: 8/5/11  
 Date: 9/28/2011

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 8/12/2011	Survey Section (SS): P1A (partial)
Biologist: Scott Werner	Subarea: NBZ-W
Released for EPA activities? Yes	Survey Type: Special-status species and habitats, nesting birds
Expiration: 2/1/2012	Start/end time: 0730-1040

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1A	Santa Susana Tarplant	Y	Y	VC-10, GS-1, SS-1, SS-2
P1A	Dudleya	Y	Y	VC-9, GS-1, SS-1, SS-2
P1A	Protected trees (coast live oak, elderberry)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1A	So. Cal. Rufous-crowned sparrow	N	N	VC-1, GS-1, SS-1, SS-2
P1A	Riparian habitat	Y	Y	Appendix N-3
P1A	Upland California red-legged frog habitat	N	Y	VC-5, VC-6, GS-4, SS-1, SS-2
P1A	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

Surveying W end of P1A.

A portion of the area is within 300-ft buffer of Outfall designated as California red-legged frog aquatic habitat. Mechanical mowing within the buffer is prohibited.

Ephemeral riparian habitat present, in which shrubby vegetation along drainage bottoms should be selectively trimmed only to the extent required for gamma scanning equipment access. Woodrat sign evident throughout rocky chaparral.

Site supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard. Occurrence San Diego desert woodrat recently documented in nearby P1I. Mowing of woody vegetation restricted due to potential for desert woodrat.

Biologist Signature: \_\_\_\_\_

*Scott Werner*

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

*8/12/11*

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

*Carleen Garcia*

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

*9/28/2011*

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 8/16/2011	Survey Section (SS): P2O (partial), P1A (partial)
Biologist: Scott Werner	Subarea: NBZ-W
Released for EPA activities? Yes (partial)	Survey Type: Special-status species and habitats, nesting birds
Expiration: 2/1/2012	Start/end time: 0730-1040

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P2O, P1A	Santa Susana Tarplant	Y	Y	VC-10, GS-1, SS-1, SS-2
P2O, P1A	Dudleya ✓	Y	Y	VC-9, GS-1, SS-1, SS-2
P2O, P1A	Protected trees (coast live oak, walnut, California bay)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1A	Nesting birds ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
P1A	So. Cal. Rufous-crowned sparrow	N	N	VC-1, GS-1, SS-1, SS-2
P1A	Riparian habitat ✓	Y	Y	Appendix N-3
P2O, P1A	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2

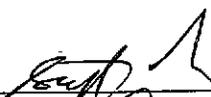
### NOTES AND RECOMMENDATIONS:

Surveying SW P2O within view of road (mainly level terrain) and W 2/3 of P1A.

Active mourning dove nest with 1 small feathered chick, 8 feet above ground in sandstone outcrop crack concealed by grasses. UTM 341937E, 3789282N.

Ephemeral riparian habitat present, in which shrubby vegetation along drainage bottoms should be selectively trimmed only to the extent required for gamma scanning equipment access. Woodrat sign evident throughout rocky chaparral.

Site supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard. Occurrences of coast horned lizard and San Diego desert woodrat recently documented in nearby P11.

Biologist Signature: 

Date: 8/16/11

HGL Field Supervisor Signature: 

Date: 9/23/2011

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 8/23/2011	Survey Section (SS): P1A, P1B (partial)
Biologist: Scott Werner	Subarea: NBZ-W
Released for EPA activities? Yes (partial)	Survey Type: Special-status species and habitats, nesting birds
Expiration: 2/1/2012	Start/end time: 0700-1000

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1A	Nesting birds ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
P1A, P1B	Santa Susana Tarplant ✓	Y	Y	VC-1, GS-1, SS-1, SS-2
P1A, P1B	Protected trees (coast live oak, ✓ walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1A, P1B	Riparian habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1A, P1B	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Surveying SE corner P1A along NBZ boundary and SE half of P1B. Partial survey because N P1A and NW P1B have not been stomp and tromped for health and safety issues.

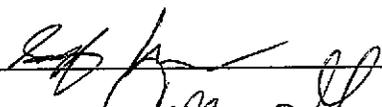
Both plots support ephemeral riparian habitat, in which shrubby vegetation along drainage bottoms should be selectively trimmed only to the extent required for gamma scanning equipment access. Main canyon in P1B does not appear to have burned in 2005 Topanga Fire. Woodrat sign evident throughout coast live oak woodland and rocky mature chaparral.

Sites support suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard. Occurrences of coast horned lizard and San Diego desert woodrat recently documented in nearby P11.

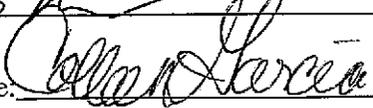
White-tailed kite flyover (State Fully Protected) ✓

Merriam's chipmunk seen (non-special status).

*Mourning dove nest still active in SE P1A. SW*

Biologist Signature: 

Date: 8/23/11

HGL Field Supervisor Signature: 

Date: 8/23/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

<b>Date:</b> 8/24/2011	<b>Survey Section (SS):</b> P1B
<b>Biologist:</b> Scott Werner	<b>Subarea:</b> NBZ-W
<b>Released for EPA activities?</b> Yes	<b>Survey Type:</b> Special-status species and habitats, nesting birds
<b>Expiration:</b> 2/1/2012	<b>Start/end time:</b> 0830-1000

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1B	Santa Susana Tarplant	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1B	Protected trees (coast live oak, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1B	Riparian habitat	Y	Y	VC-1, GS-1, SS-1, SS-2
P1B	Suitable habitat for California special concern species	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1B	Late bird-nesting habitat	N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Surveying while on stomp and tromp remainder of P1B. Also hiked though P3U but not adequately surveyed for biological sensitivities.

Site supports ephemeral riparian habitat, in which shrubby vegetation along drainage bottoms should be selectively trimmed only to the extent required for gamma scanning equipment access. Main canyon in P1B does not appear to have burned in 2005 Topanga Fire. Woodrat sign evident throughout coast live oak woodland and rocky mature chaparral.

Site supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard. Occurrences of coast horned lizard and San Diego desert woodrat recently documented in nearby P11.

California king snake observed.

All of P1B is released for EPA activities. Monitor should scout ahead of VC crews to flag additional woodrat nests, Santa Susana tarplant, and check for any bird nesting activity.

Biologist Signature: 

Date: 8/24/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM**

ENVICOM CORPORATION

Date: 8/30/2011	Survey Section (SS): PIA (complete)
Biologist: Scott Werner	Subarea: NBZ-W
Released for EPA activities? Yes	Survey Type: Special-status species and habitats, nesting birds
Expiration: 2/1/2012	Start/end time: 0730-0930

**SURVEY FINDINGS**

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
PIA	Santa Susana Tarplant	Y	Y	VC-10, GS-1, SS-1, SS-2
PIA	Dudleya	Y	Y	VC-9, GS-1, SS-1, SS-2
PIA	Protected trees (coast live oak, walnut, California bay)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
PIA	So. Cal. Rufous-crowned sparrow	N	N	VC-1, GS-1, SS-1, SS-2
PIA	Riparian habitat	Y	Y	Appendix N-3
PIA	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2

**NOTES AND RECOMMENDATIONS:**

Surveying remaining portion of PIA (NW portion, main N/S drainage).

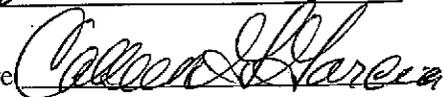
Mourning dove nest was confirmed to have been completed (likely fledged) yesterday.

Ephemeral riparian habitat present, in which shrubby vegetation along drainage bottoms should be selectively trimmed only to the extent required for gamma scanning equipment access. Heavy duff buildup in ephemeral creek bottoms may support aestivating amphibians and disturbances should be minimized. Woodrat sign evident throughout rocky chaparral.

Site supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard. Occurrences of coast horned lizard and San Diego desert woodrat recently documented in nearby P11.

Biologist Signature: 

Date: 8/30/11

HGL Field Supervisor Signature: 

Date: 9/29/2011

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 9/2/2011	Survey Section (SS): SS-49, SS-59
Biologist: Scott Werner	Subarea: 8 South, 5D South
Released for EPA activities? Yes	Survey Type: Special-status species and habitats, nesting birds in support of upcoming Soil Sampling
Expiration: 2/1/2012	Start/end time: 0815-1000

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
SS-49, SS-59	Braunton's milkvetch	Y	Y	VC-3, GS-1, SS-1, SS-2
SS-49, SS-59	Malibu baccharis	Y	Y	VC-1, GS-1, SS-1, SS-2
SS-49, SS-59	Plummer's mariposa lily (fruits present)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
SS-49, SS-59	Protected trees (coast live oak, walnut)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
SS-49, SS-59	Occupied coast horned lizard habitat	N	Y	VC-1, GS-1, SS-1, SS-2
SS-49, SS-59	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2

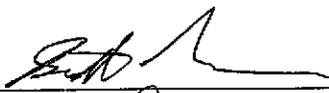
### NOTES AND RECOMMENDATIONS:

Surveying around recently established SS points (some marked, some estimated from maps), including access routes.

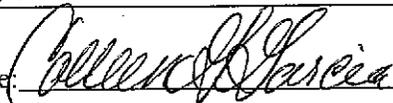
\*\*\*\*It is critical that all SS work on SS-49 be closely monitored and access routes planned in advance to avoid impacting newly sprouted Braunton's milkvetch plants. Many, but not all, points on SS-59 occur in protected plant zones as well, and the biological monitor may not be required to be present at all points at all times.

Truck-mounted auger will likely be limited to a small subset of the total sampling points due to terrain. In certain protected plant areas, the truck-mounted auger will be completely restricted and a hand auger will be required.

The area supports suitable habitat for California Special Concern Species: coast horned lizard (confirmed present), coast patch-nosed snake, and San Diego desert woodrat.

Biologist Signature: 

Date: 9/2/11

HGL Field Supervisor Signature: 

Date: 9/22/2011

# BIOLOGICAL RESOURCE CLEARANCE SURVEY FORM

ENVICOM CORPORATION

Date: 9/8/2011	Survey Section (SS): P1C, P3V
Biologist: Scott Werner	Subarea: NBZ-W
Released for EPA activities? Yes	Survey Type: Special-status species and habitats, nesting birds
Expiration: 2/1/2012	Start/end time: 0745-0945

### SURVEY FINDINGS

Survey Section	Protected Resources	Flagged?	Monitor needed?	Applicable Avoidance and Minimization Measures
P1C, P3V	Santa Susana Tarplant	N	Y	VC-10, GS-1, SS-1, SS-2
P1C, P3V	Dudleya	N	Y	VC-9, GS-1, SS-1, SS-2
P1C	Potentially sensitive mariposa lilies	N	Y	VC-1, GS-1, SS-1, SS-2
P1C, P3V	Protected trees (coast live oak, walnut, California bay)	Y/N	Y	VC-1, GS-1, SS-1, SS-2
P1C, P3V	Riparian habitat	N	Y	Appendix N-3
P1C, P3V	Suitable habitat for California special concern species	N	Y	VC-1, GS-1, SS-1, SS-2
P1C, P3V	Occupied vernal pool branchiopod habitat (dry)	N	Y	VC-1, GS-1, SS-1, SS-2

### NOTES AND RECOMMENDATIONS:

P1C support ephemeral riparian habitat (currently dry) with large (up to 5' x 5') flat areas that likely pool up with water in rainy season. Currently filled with oak duff, these areas likely harbor aestivating amphibians, and entry/impacts to these areas should be minimized. As always, shrubby vegetation along drainage bottoms should be selectively trimmed only to the extent required for gamma scanning equipment access.

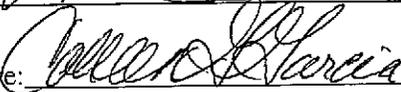
Slope on S side of P1C drainage is moderate and will likely support TMGS and safe VC. Creek bottom and slope to N is fairly inaccessible due to rocks and steep terrain. However, the N side of P1C is expansive and relatively flat, and would support ERGS scanning, if the ERGS can get into the area. VC mechanical mowing should still be limited or completely restricted in this area, especially around woody shrubs, sandstone, and obvious rodent burrows, to minimize impacts to wildlife. Much avian whitewash, bee hives, and old cliff swallow nests were observed in sandstone outcrops. Known occupied vernal pool habitat (currently dry) is located atop large sandstone outcrops from previous surveys (this area will not likely be veg cut or scanned due to its inaccessibility).

P3V also supports all habitat elements described above but is smaller in acreage and supports a relatively small amount of sensitive riparian habitat.

Both sites supports suitable habitat for California Special Concern Species: coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, and California legless lizard.

Biologist Signature: 

Date: 9/8/11

HGL Field Supervisor Signature: 

Date: 9/27/2011

**APPENDIX 3**

**FIFTH QUARTER  
BIOLOGICAL MONITORING FORMS**

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 01 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1J	0705-1000 1100-1400	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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
P1J	nesting birds protected trees plummer's mariposa lily santa susana tarplant	VC-1 VC-10	None

**NOTES AND RECOMMENDATIONS:**

Biologist Signature: *Jack Stone*

Date: 09 July 2011

HGL Field Supervisor Signature: *Colleen Garcia*

Date: 7/17/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 05 JULY 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1J	0655-1155	VC	chipper, chain saws, weed whackers, skid loader, skid steer, loggers
"	P1E	1205-1400	"	"

\* 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	Biological Resources Encountered	AVM's Implemented	Residual Impacts
P1J	Nesting birds protected trees plummers mariposa lily santa susana tarplant	VC-1 Ventura Co. Trim. guidelines VC-2 VC-10 VC-2	None trees trimmed None None
P1E	Nesting birds protected trees plummers mariposa lily santa susana tarplant coast horned lizard occupied habitat	VC-1 Ventura Co. Trim. Guidelines VC-2 VC-2 VC-10 Biol. Monitor	None trees trimmed None None None

**NOTES AND RECOMMENDATIONS:**

- P1E Numerous potential environmental hazards observed. Punctured & dumped 55 gal steel drums, large metal rods (drilling probes?).
- Both survey sections P1J & E support suitable habitat for CA special concern species (Coast horned lizard, coast patch-nosed snake, silvery legless lizard in woodland, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 05 JULY 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 06 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1D, E	0650-1000 1055-1400	VC	Chipper, chain saws, weed whackers, Skip loader, skid steer, loppers

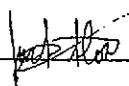
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling.

**MONITORING RESULTS**

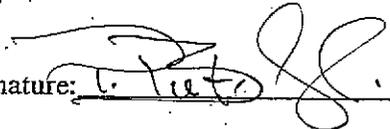
Survey Section	Biological Resources Encountered	AVM Implemented	Residual Impacts
P1D, E	Nesting birds * Protected Trees	VC-1 Ventura Co. Trim. guidelines	None Trees trimmed
	Plumbers Mariposa Lily Dudleya	VC-2	None
	Santa Susana Tarplant	VC-2 VC-9 VC-2 VC-10	None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned lizard, Coast patch-nosed snake, Silvery legless lizard in woodland, San Diego desert woodrat).
- \* 2 Golden eagle fledglings observed in vicinity of known nest site flying & resting on sandstone outcrops.

Biologist Signature: 

Date: 06 July 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 07 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1D, E	0655-1000 1100-1400	VC	Chipper, chain saws, weed whackers, skip loader, skid steer, loppers

\* 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	Biological Resources Encountered	AMM's Implemented	Residual Impacts
P1D, E	Nesting birds protected trees	VC-1 Ventura Co. Trin. guidelines	None trees trimmed
	Plummer's Mariposa Lily Dudleya	VC-2 VC-2 VC-9	None None
	Santa Susana Tarplant	VC-2 VC-10	None
	Coast Horned Lizard occupied habitat	BIOL. MONITOR	None

**NOTES AND RECOMMENDATIONS:**

Area supports habitat for California Special Concern species (Coast Horned Lizard, Coast patch-nosed snake, Silvery Legless Lizard in woodland, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 07 July 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 08 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Vegetation Monitored	Equipment Used
NBZ-E	P1D	0700-1000 1100-1400	VC	Chipper, chain saws, weed whackers, skip loader, skid steer loaders.

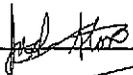
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

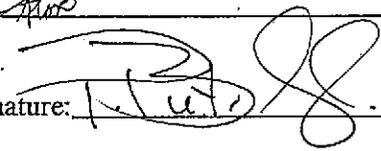
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
P1D	Nesting birds protected tree	VC-1 Ventura Co. Trim. Guidelines	None Trees - trimmed
	Plummer's nariposa Lily Dudleya	VC-2 VC-9	None None
	Santa Susana Tarplant	VC-2 VC-12	None
	Coast horned lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Spoke w/ Rod Collins (HGL Health & Safety). I suggested utilizing a bee keeper for problematic bee hives.
- Area supports habitat suitable for California special concern species (Coast horned lizard, coast patch-nosed snake, silvery legless lizard in woodland, San Diego desert woodrat).

Biologist Signature: 

Date: 08 July 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 11 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1 D	0655-1020 1105-1355	VC	Chipper, chain saws, weed whackers, skip loader skid steer ladders.

\* 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	Biological Resource Encountered	AMM's Implemented	Residual Impact
P1 D	Nesting birds protected trees	VC-1 Ventura Co. trim. Guidevine	None trees + trimmed
	Plummer's Mariposa Lily Santa Susana Tarplant	VC-2 VC-2 VC-10	None None
	Coast horned Lizard occupied habitat	BIOL. Monitor	None
	Dudleya	VC-2 VC-9	None

**NOTES AND RECOMMENDATIONS:**

Area supports habitat suitable for California special concern species (Coast horned lizard, coast patch-nosed snake, silvery checkered lizard in woodland, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 11 July 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 7/12/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-E	P1J	0700-0730	GS	TMGS

\* 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
P1J	Plummer's mariposa lilies	GS-1	None

### NOTES AND RECOMMENDATIONS:

TMGS team advised on locations of Plummer's mariposa lilies to avoid. It appears that the plants are in a location that is inaccessible to the TMGS.

Biologist Signature: \_\_\_\_\_



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

7/12/11

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



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

7/29/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 7-12-11

Biologist: <sup>Brady</sup> Daniels

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBE -E	WBZ PID	0630-1330	Veg Clearing	Hand tools, Chipper, Skid Steer

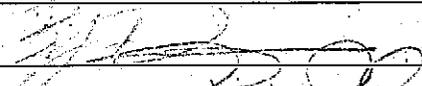
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

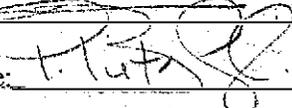
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
NBZ	CRLF <del>proposed</del> habitat	- Surveyed & monitored	α
	Nesting birds	- enforced buffer	temp noise & disturbance
	Sensitive plants <del>lilies</del>	- flagged	α
	(potential sensitive manzanita lilies)		

## NOTES AND RECOMMENDATIONS

- \* Performed pre-con survey of proposed CRLF habitat within riparian zone and immediate adjacent upland. Area does not appear to be quality CRLF habitat. There is no standing H<sub>2</sub>O or areas that would allow for impairment. No CRLF were observed or any other herps.
- \* Flagged two manzanita lily
- \* Enforced buffer for nesting bird.

Biologist Signature: 

Date: 7-12-11

HGL Field Supervisor Signature: 

Date: 19 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 7/13/2011 Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-37	0700-0900	SS	Power auger, tables, chairs, boxes
6	SS-38	0700-0900	SS	Hand auger, tables, chairs, boxes

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

**MONITORING RESULTS**

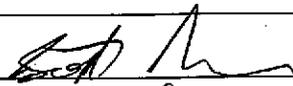
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-38, SS-17	Nesting bird	SS-1, SS-2	None
SS-38, SS-17	Santa Susana tarplant	SS-1, SS-2	None
SS-38, SS-39	Plummer's mariposa lilies	SS-1, SS-2	None

**NOTES AND RECOMMENDATIONS:**

Soils teams are in the 'football field' of the SRE and around the edges. Santa Susana tarplants in this flat area were flagged and the auger truck was guided around them.

Phainopepla nest on SS-17, approximately 200 feet from SS activity. Nest has 2 partly naked nestlings and is in a coast live oak, 8 feet above a large sandstone outcrop at UTM 342668E, 3789493N. Adults of this skittish species were temporarily agitated at the activity but were fairly quickly habituated and resumed their normal activity. California towhee feeding 2 fledglings here as well.

During monitoring I confirmed that the unidentified mariposa lilies in SS-38/39 in the northern 'point' of SA-6/7 are Plummer's mariposa lilies and they are abundant on this north-facing slope and in bloom. Likely some *C. clavatus* as well, because some were about to flower early in the spring when I was last here (earlier than standard Plummer's flowering season) and have now long gone to seed.

Biologist Signature: 

Date: 7/13/11

HGL Field Supervisor Signature: 

Date: 6/29/11

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 7/13/11

Biologist: B. Daniels

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ	<del>XXXX</del>	0630-1330	Veg CREW	hand tools, chipper

\* 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
	* Sensitive plants potential ↑ Mariposa lilies	Flagged for avoidance	None

## NOTES AND RECOMMENDATIONS

\* Performed survey for nesting birds & Sensitive plants work area is established no nesting bird issues ~~within~~ within work limits  
 - flagged mariposa lilly for avoidance (potential sensitive plants - unidentified)

Biologist Signature: Bandy Daniels  
 HGL Field Supervisor Signature: [Signature]

Date: 7-13-11  
 Date: 8/4 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
	06:30	NBZ	<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	hand tools chipper
	11:00	ABZ	<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	hand tools 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	
			<input type="checkbox"/> VC <input type="checkbox"/> GS <input type="checkbox"/> GP <input type="checkbox"/> SS <input type="checkbox"/> MWS <input type="checkbox"/> SWSS	

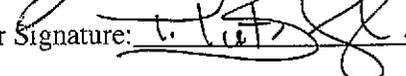
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

ID	Protected Resources Encountered	Area	AMM's Implemented	Residual Impacts
	Protected trees (live) Flagged Veg (oak)		Avoided Flagged	<u>    </u>
	Protected trees (live) Flagged Veg (oak)		Avoided Flagged	<u>    </u>

**NOTES AND RECOMMENDATIONS:**

- Performed Recon of ABZ proposed clear and grub limits. C. Toxopne fledgling begging, S. toxopne begging. No active nests observed, birds were evaluated and determined that clearing would not harm fledglings.  
\* ~~No~~ sensitive plants were observed within clear and grub limits.

Biologist Signature:   
 HGL Field Supervisor Signature: 

Date: 7-14-11  
 Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 7/14/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-E	P1D	0645-0715 0745-0815	VC	Chainsaws, weed whackers, skid steer, chipper, front loader

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

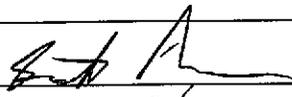
## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
P1D	Nesting bird habitat	VC-1	None
P1D	Santa Susana tarplant	VC-10	None
P1D	Plummer's mariposa lilies	VC-1	None
P1D	Protected trees (coast live oak, blue elderberry)	Ventura Country trimming guidelines	Trimmed

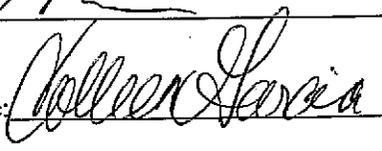
### NOTES AND RECOMMENDATIONS:

Briefly monitoring VC crew until replacement monitor arrives. Rest of day: clearance survey.

Loggerhead shrike seen hunting from telephone line in SS-15.

Biologist Signature: 

Date: 7/14/11

HGL Field Supervisor Signature: 

Date: 7/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 18 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
SD South	SS-58	0705-1000 1140-1400	VC	Chain saws, weed whackers

\* 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	AWM's Implemented	Residual Impacts
SS-58	Nesting birds Protected trees	VC-1 Ventura Co. Trim. guidelines	None trees trimmed
	Braunton's MILK Vetch Mastic Bunchgrass	VC-2 VC-3 VC-2	6 damaged * None
	Coast horned lizard Confirmed occupied habitat		None
	Plummer's Mani posa Lily Santa Susana Tarplant	VC-2 VC-2 VC-10	None None

**NOTES AND RECOMMENDATIONS:**

\* 6 Braunton's MILK Vetch plants slightly damaged by weed whackers, not destroyed.  
Suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego Desert Woodrat).

Biologist Signature: Jack Stone

Date: 18 July 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 7/18/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	0700-0730 0930-0950	VC	Chainsaws, weed whackers, skid steer, front loader
7	SS-39	0730-0900	GS	ERGS
6	SS-38	0900-0930	SS	Hand auger, tables, chairs, equipment boxes

\* 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-58	Braunton's milkvetch	VC-1	None
SS-58	Malibu baccharis	VC-1	None
SS-58	Nesting birds	VC-1	None
SS-58	Protected trees (coast live oak, walnut, elderberry)	Ventura County trimming guidelines	None
SS-58	Coast horned lizard occupied habitat	VC-1	None
SS-38, SS-58	Plummer's mariposa lily	VC-1	None
SS-39, SS-58	Santa Susana tarplant	GS-1	None
SS-39, SS-58	Special-status wildlife habitat	GS-1	None
SS-38, SS-39	Nesting bird habitat	GS-1	None

**NOTES AND RECOMMENDATIONS:**

SS-38: Phainopepla nest in SS-17 near SS activity in SS-38 is empty, was predated. Golden eagle juvenile seen soaring over SRE.

SS-58: All nests found active during clearance surveys are still active. White-tailed kite soaring above SS-58.

Biologist Signature: 

Date: 7/18/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 19 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Sub-Section	Time	Activities Monitored	Equipment Used
5D South	SS-58	0655-1000 1125-1240	VC	
		1240-1345	GS	ERGS 2
		1345-1420	GS	TMGS

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

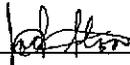
**MONITORING RESULTS**

Sub-Section	Disturbed Resources Encountered	AWM Implemented	Residual Impact
SS-58	Nesting birds protected trees	VC-1 GS-1 Ventura Co. Trim. guidelines	None trees trimmed
	Plummer's mariposa lily Braunton's milk vetch	VC-2 GS-1 VC-2 VC-3 GS-1	None None*
	Coast Horned Lizard Masticus buerchardii	GS-1 VC-2 GS-1	None None
	Santa Susana Turpentine	VC-2 VC-10 GS-1 GS-5	None

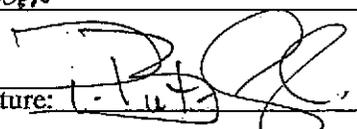
**NOTES AND RECOMMENDATIONS:**

7 Braunton's milk vetch plants came into contact with and were disturbed by TMGS while gamma scanning but there were NO serious impacts observed (No plants uprooted / No large or main stems severed).

Area supports suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: 

Date: 19 July 2011

HGL Field Supervisor Signature: 

Date: 18 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 7/19/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	1045-1130	GS	ERGS
5D South	SS-58	1130-1400	VC	Chainsaws, weed whackers, skid steer, chipper

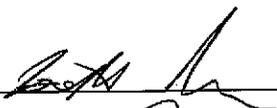
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-58	Braunton's milkvetch	VC-3	1 small plant knocked over
SS-58	Braunton's milkvetch	GS-1	2 mature plants damaged
SS-58	Malibu baccharis	VC-1	None
SS-58	Nesting birds	VC-1	None
SS-58	Protected trees (coast live oak, walnut, elderberry)	Ventura County trimming guidelines	None
SS-58	Coast horned lizard occupied habitat	VC-1	None
SS-58	Plummer's mariposa lily	VC-1	None

**NOTES AND RECOMMENDATIONS:**

SS-58: Blue grosbeak nest eggs have hatched, both adults feeding young.

Biologist Signature: 

Date: 7/19/11

HGL Field Supervisor Signature: 

Date: 7/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 20 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Survey Section	Time	Activity Monitored	Equipment Used
SD South	SS-58	0710-1005 1215-1400	VC	Chain saws, weed whackers, chipper (PM ONLY)
		1010-1115	GS	T.M.G.S

\* 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	Biological Resources Encountered	AMM Implemented	Residual Impacts
SS-58	Nesting birds Protected trees	VC-1 GS-1 Ventura Co. Trim Guidelines	None trees trimmed
	Braunton's Milk-Vetch	VC-2 VC-3 GS-1	None
	MATEU baccharis	VC-2 GS-1	None
	Plummer's Maniposa Lily	VC-2 GS-1	None
	Santa Susana tarplant	VC-2 VC-10 GS-5	None

**NOTES AND RECOMMENDATIONS:**

Area supports suitable habitat for California Special Concern Species (Coast horned Lizard, coast patch-nosed snakes San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 20 July 2011

HGL Field Supervisor Signature: T. Lett

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 7/20/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	0810-1030	GS	ERGS, TMGS

\* 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-58	Braunton's milkvetch	GS-1	none
SS-58	Malibu baccharis	GS-1	None
SS-58	Nesting birds	GS-1	None
SS-58	Protected trees (coast live oak, walnut, elderberry)	Ventura County trimming guidelines	None
SS-58	Coast-horned-lizard-occupied-habitat	GS-1	None
SS-58	Plummer's mariposa lily	GS-1	None

### NOTES AND RECOMMENDATIONS:

Monitoring scanning in central SS-58. Spotted towhee nest at top of hill still active, female sitting tight.

Biologist Signature: \_\_\_\_\_

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

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

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

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 21 JULY 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-58	0700-1000 1210-1400	VC	chain saws, weed whackers, skip loader, loppers

\* 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	AMMPs Implemented	Residual Impacts
SS-58	Nesting birds Protected trees	VC-1 Ventura Co. Trim Guidelines	None Trees trimmed
	Santa Susana Tarplant Braunton's Milk-Vetch	GS-5 VC-10 VC-3 VC-2	None None
	Malibu baccharis Plummers Mariposa Lily	VC-2 VC-2	None None

**NOTES AND RECOMMENDATIONS:**

Area supports suitable habitat for California special concern species (coast horned lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 21 July 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 7/21/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	0830-0900	GS	ERGS, TMGS
5D South	SS-58	0900-1000	VC	Chainsaws, weed whackers, skid steer, chipper, 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-58	Braunton's milkvetch	VC-3, GS-1	none
SS-58	Malibu baccharis	VC-1, GS-1	None
SS-58	Nesting birds	VC-1, GS-1	None
SS-58	Protected trees (coast live oak, walnut, elderberry)	Ventura County trimming guidelines	None
SS-58	Coast-horned-lizard-occupied-habitat	VC-1, GS-1	None
SS-58	Plummer's mariposa lily	VC-1, GS-1	None

### NOTES AND RECOMMENDATIONS:

Monitoring scanning and VC in western/central SS-58.

Biologist Signature: \_\_\_\_\_

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

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

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

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 22 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Site Section	Time	Activities Monitored	Equipment Used
SD South	SS-51	0655-1000 1105-1400	VC	Chain saws, weed whackers

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

**MONITORING RESULTS**

Site Section	Protected Resources Encountered	AVMs Implemented	Residual Impacts
SS-51	Nesting birds Protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees trimmed
	PLUMMER'S Mariposa Lily	VC-2	None
	FRANTON'S MILK-VETCH	VC-2 VC-3	Minimal damage *
	Malibu baccharis	VC-2	Minimal damage *
	COAST horned lizard occupied habitat		None

**NOTES AND RECOMMENDATIONS:**

\* 2 baccharis and 5 milk-vetch plants had minor damage, a scared main stem on a large baccharis plant from weed whacker a broken secondary stem on another baccharis plant also from weed whacker and The MILK-VETCH plants were apparently stepped on but not uprooted or severed (3 plants) and minor/secondary stems severed (2 plants).

- Area supports suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 22 July 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 25 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
SD South	SS-51	0700-1000 1100-1345	VC	Chain saws, weed whackers, chipper (PM 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	Biological Resources Encountered	AMVs Implemented	Residual Impacts
SS-51	Nesting birds	VC-1	None
	Protected trees	Ventura Co. Trim. Guidelines	Trees Trimmed
	Braunton's Milk-vetch	VC-2 VC-3	None
	Malibu baccharis	VC-2	None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

Area supports suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 25 July 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

Date: 7/26/11

Sheet \_\_\_ of \_\_\_

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
	0630/1430	SD South	<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	Scanning trac
			<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
	L Goldfinch nest	SD South	Established buffer	temp. visual & noise disturbance
	milk vetch	SD South	Flagged	⊗
	live oak trees	SD South	discussed with crew	⊗

**NOTES AND RECOMMENDATIONS:**

\* lesser Goldfinch nest found while Gamma Scanning. Set buffer to avoid further impacts. Adults are actively feeding nestlings and protecting nest tree from other apes.

\* Milkvetch at oak woodland interface with chapp. habitat plants flagged for avoidance, some plants extend into woodland following erosion features and pipe line corridor that bisects woodland.

Biologist Signature: Budy Danuly

Date: 7-26-11

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 26 JULY 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-51 SS-52	0650-1000 1055-1115	VC	Chain saws, weed whackers
NBZ-W	P1A	1220-1400	"	" " " " PLUS rotary mower on skid steer

\* 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, 52	Nesting birds Protected trees Malibu Yucca Brewerton's Milk-vetch Plummer's Mariposa Lily	VC-1 Ventura Co. Trim. Guidelines VC-2 VC-2 VC-3 VC-2	None Trees trimmed  None
P1A	Nesting birds Protected trees Santa Susana Tarplant Dudleya	VC-1 Ventura Co. Trim. Guidelines VC-2 VC-10 VC-2 VC-9	None Trees trimmed None None

**NOTES AND RECOMMENDATIONS:**

Above areas provide suitable habitat for California special concern species (Coast Horned Lizard, coast patch-mosck snake, San Diego Desert Woodrat). One confirmed observation of San Diego Desert & numerous observations of Big-eared woodrats.

Biologist Signature: Jack Stone

Date: 12 August 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 27 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1 A	0650-1000 1055-1400	VC	chipper, chain saws, weed whackers, loppers

\* 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	AMVs Implemented	Residual Impacts
P1 A	Nesting birds Santa Susana Tarplant Protected trees	VC-1 VC-2 VC-10 Ventura Co. Trim. Guidelines	None None trees trimmed
	Dudleya Plummer's Mariposa Lily Coast horned lizard occupied habitat	VC-2 VC-9 VC-1 Biol. Monitor	None None None
	riparian habitat	Selective trimming of non-protected	Selective trimming of shrubs left

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast Horned Lizard, Coast Patch-nosed Snake, San Diego Desert Woodrat). Numerous Neotoma sp. nests.
- Ephemeral riparian habitat present, shrubs in this zone left intact, only selectively trimmed to allow gamma scanning access.

Biologist Signature: Jack Stone

Date: 12 August 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 7/27/2011 Wednesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South	SS-51	1230-1315	GS	TMGS

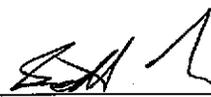
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

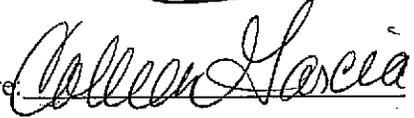
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-51	Braunton's milkvetch	VC-3, GS-1	none
SS-51	Malibu baccharis	VC-1, GS-1	None
SS-51	Nesting birds	VC-1, GS-1	None
SS-51	Protected trees (coast live oak, walnut, elderberry)	Ventura County trimming guidelines	None
SS-51	Coast-horned lizard-occupied habitat	VC-1, GS-1	None

**NOTES AND RECOMMENDATIONS:**

Monitoring GS in SW corner SS-51. New mourning dove nest 8 feet up in coast live oak, unsure whether eggs or young. UTM 341749E, 3788619N. Flushed bird off briefly but stayed away from nest area and it returned after about 20 minutes.

Biologist Signature: 

Date: 7/27/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
0630-1330		SD South	<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	TRACK-SCANNER MOUNTED
		SS-51	<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
	Dove nest	SD South	Flagged buffer	Flushed adult from nest / noise visible
	Milk Vetch	SD South	Flagged monitored	10 partial impact (damaged)
	Malibu Baccharis	SD South	"	10 partial impact (damaged)
	Mariposa lilly	SD SS-51 South	"	1 broke at base

**NOTES AND RECOMMENDATIONS:**

- The track scanner had an extremely difficult time scanning milk vetch area. Loose soils and uneven terrain made it impossible to navigate and operate equipment. After stressing concerns to onsite operators I discussed with Preston Butler and recommended to use another scanning method since we are impacting so much.

\* Dove nest observed while scanning along the boundary of SD South & 8 South. Adult displayed broken wing behavior, I eventually found nest tree and set buffers appropriately. (SAME NEST reported on Scott Werner's form 7/27)

Biologist Signature: [Signature]  
 HGL Field Supervisor Signature: [Signature]

Date: 7-27-11  
 Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
ENVICOM CORPORATION

Date: 28 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Date	Activity Monitored	Equipment Used
5D South	SS-52	0700-1000 1205-1400	VC	Chain saws, weed whackers
"	SS-51	1005-1050	GS	TMGS

\* 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	AVMs Implemented	Residual Impacts
SS-52	Nesting birds	VC-1	None
	protected trees	Ventura Co. Trim. Guidelines	Trees trimmed
	MALIBU baccharis	VC-2	
SS-51	Braunton's Milk-Vetch	VC-2 VC-3	* Significant
	Plummer's mariposa lily	VC-2	None
	Coast horned lizard	Biol. monitor	None
	Nesting bird habitat	GS-1	None
SS-51	protected trees	Ventura Co. Trim. guidelines	Trees already trimmed
	Braunton's Milk-Vetch	GS-1	None
	MALIBU baccharis	GS-1	None
	Coast horned lizard occupied habitat	Biol. monitor	None

**NOTES AND RECOMMENDATIONS:**

\* 1 large (1.5m main stem length) Braunton's milk-vetch plant destroyed by veg. clearing crew person using weed whacker. This plant was properly flagged as 'sensitive/protected' near the top of the plant, but the plant was leaning over almost parallel to the ground and severed near the base of the main stem, 7m from the flagging. To help prevent this, large plants are now flagged near the top AND at the base.

- Areas SS-51, 52 both support suitable habitat for Calif. special concern species.

Biologist Signature: Jack Stone

Date: 12 August 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 7/28/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	0700-0900	GS	TMGS

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

**MONITORING RESULTS**

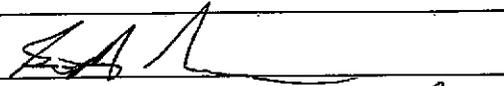
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-58	Braunton's milkvetch	GS-1	None
SS-58	Nesting birds	GS-1	None
SS-58	Protected trees	GS-1	None
SS-58	Occupied horned lizard habitat	GS-1	None
SS-58	Malibu baccharis	GS-1	None

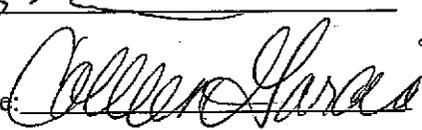
**NOTES AND RECOMMENDATIONS:**

Marked buffer around newer lesser goldfinch nest described yesterday near road along 5D North. Spotted towhee nest up top; no adults or fledgling around. Rattlesnake found coiled up beneath nest – it may have killed the fledgling given that it wasn't highly mobile yet.

Loggerhead shrike heard in SS-56.

Scanning was conducted within 20 feet of active lesser goldfinch nest in smaller coast live oak near top of hill. Nestlings seem generally restless but they stayed put while equipment was nearby. Brady Daniels took over monitoring at 0900 hrs.

Biologist Signature:  Date: 7/28/11

HGL Field Supervisor Signature:  Date: 8/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

**ACTIVITIES MONITORED**

ID	Time	Area	Activities Monitored*	Equipment
	0630-1:30	4-50	<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	Track 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
	Nesting birds	5D 50 Satin	monitored	⊗
	Sensitive veg	5D 50 Satin	Flagged/avoided	⊗
	Braunton's milkvetch			
	Malibu baccharis			
	Protected trees			

**NOTES AND RECOMMENDATIONS:**

\* L. Goldfinch nest from earlier in week was being observed while inspecting the adults at nest site the nestlings fledged flying to adjacent live oak tree. The adults tended fledglings. Once birds were far enough from the nest tree Gamma Scanning finished area around nest tree.

\* Flagged and painted at sensitive plants to GS crew. Sensitive plants in section include Braunton's milkvetch, Malibu baccharis, potential sensitive mariposa lilies, protected trees

Biologist Signature: [Signature]

Date: 7-28-11

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 29 July 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Site Section	Time	Activities Monitored	Equipment Used
SD South	SS-52	0650-0735	VC	chipper, chain saws, weed whackers
"	SS-58	0740-1000 1055-1400	"	" " " " "

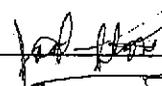
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

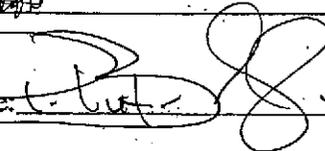
Site Section	Protected Resources Encountered	AVMs Implemented	Residual Impact
SS-52, 58	Nesting birds	VC-1	None
	protected trees	Venture Co. Trim. Guide-lines	Trees trimmed
	Braunton's Milk-vetch	VC-2 VC-3	None observed
	Malibu baccharis	VC-2	None
	Plummer's Maniposa Lily	VC-2	None
	Santa Susana Tarplant	VC-2 VC-10	None
	Coast horned lizard occupied habitat	Biol. monitor	None

**NOTES AND RECOMMENDATIONS:**

Both areas SS-52, 58 support suitable habitat for California special concern species (Coast-horned lizard, Coast patch-noseb snake, San Diego Desert woodrat).

Biologist Signature: 

Date: 12 August 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 01 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5D South	SS-58	0700-1000 1100-1200	VC	chipper, chain saws, weed whackers skip loader
n	SS-59	1335-1355	"	

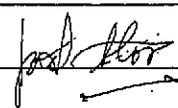
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

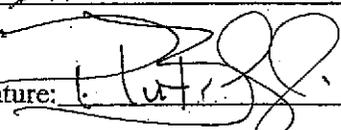
Survey Section	Protected Resources Encountered	AMM Implemented	Residual Impacts
SS-58	Nesting birds protected trees	VC-1 Ventura Co. Trim-Guidelines	None Trees Trimmed
SS-59			
	Braunton's milk-vetch <i>Melilotus baccharis</i>	VC-2 VC-3 VC-2	None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None
	Plummer's Mariposa Lily	VC-2	None

**NOTES AND RECOMMENDATIONS:**

Survey sections 58, 59 both support suitable habitat for California special concern species (Coast Horned Lizard, Coast Patch-nosed Snake, San Diego Redstart Woodrat).

Biologist Signature: 

Date: 12 August 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/1/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-59	0900-1200	GS	TMGS
5D South	SS-59	1300-1445	GS	ERGS

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

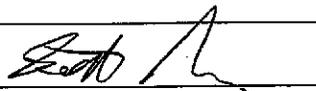
## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-59	Braunton's milkvetch	GS-1	None
SS-59	Malibu baccharis	GS-1	None
SS-59	Nesting birds	GS-1	None

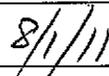
### NOTES AND RECOMMENDATIONS:

Scanning was conducted within 50 feet of active northern mockingbird and lesser goldfinch nests. Mockingbirds are feeding hatchlings and a little cautious approaching nest with activity. Incubating lesser goldfinch aware of very loud ERGS and appeared concerned but did not leave nest.

Biologist Signature: \_\_\_\_\_



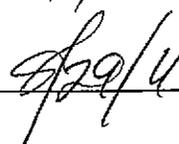
Date: \_\_\_\_\_



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



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



**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 02 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
SD South	SS-59	0715-1000	VC	Chain saws, weed whackers

\* 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	Biological Resources Encountered	A/M's Implemented	Residual Impacts
SS-59	Nesting birds protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees Trimm'd
	Plummer's Madroña Lizard	VC-2	None
	Braunton's Milk-vetch	VC-2 VC-3	None
	Mullebuccharis	VC-2	None
	Coast horned Lizard occupied habitat.	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

This area supports suitable habitat for California special concern species (Coast horned Lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 02 August 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 8/2/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	0830-1100	GS	TMGS

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

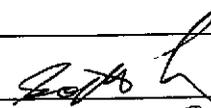
**MONITORING RESULTS**

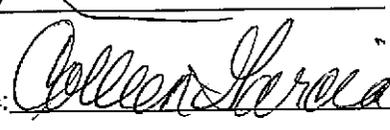
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
SS-58	Braunton's milkvetch	GS-1	None
SS-58	Malibu baccharis	GS-1	None

**NOTES AND RECOMMENDATIONS:**

Quick clearance survey ahead of VC tomorrow in SS-48 for placement of 20-ft trailer. House finch nest in coast live oak, 7 feet up in limb near road, at least 2 nestlings (UTM 341601E, 3788906N). Trailer will not be able to be placed here. New location found in NE Corner SS-50 adjacent to walnut and coast live oak. Old nest in mistletoe in coast live oak but not active. Area is clear of resources.

1245-2pm waiting for MMGS monitoring but cancelled.

Biologist Signature:  Date: 8/2/11

HGL Field Supervisor Signature:  Date: 8/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 03 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Survey Section	Time	Activity Monitored	Equipment Used
8 North	SS-50	0655-0715	VC	Weed whackers, Loppers
5D South	SS-59	0720-1000 1100-1400	"	Chipper, chain saws, Skid loader, Skid steer, weed whackers, Loppers

\* 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	AVMs Implemented	Residual Impacts
SS-50	NESTING birds protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
SS-59	NESTING birds protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
	PLUMMER'S mariposa LILY	VC-2	None
	BRAUNTON'S MILK-VETCH	VC-2 VC-3	
	Malibu baccharis	VC-2	None
	COAST horned LIZARD occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

SS-59 is suitable habitat for California special concern species (coast horned lizard, coast patch-nosed snake, San Diego Desert woodrat).

Biologist Signature: Jack Stone

Date: 12 August 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/3/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

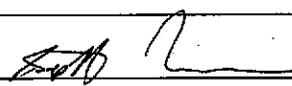
Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
6	SS-36	0715-0745	SS	Power auger, tables, chairs, boxes
5D South	SS-58	0800-1000	GS	TMGS

\* 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-36	Santa Susana tarplant	SS-1	None
SS-58	Braunton's milkvetch	GS-1	None
SS-58	Malibu baccharis	GS-1	None

## NOTES AND RECOMMENDATIONS:

Biologist Signature: 

Date: 8/3/11

HGL Field Supervisor Signature: 

Date: 8/29/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 04 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
SD South	SS-59	0703-1000 1100-1400	VC	Chipper, chain saws, weed whackers, coppers, skip loader, skid steer

\* 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	AVMs Implemented	Residual Impacts
SS-59	Nesting birds protected trees	VC-1	None
		Ventura Co. Trim Guidelines	Trees trimmed
	Braunton's MILK-Vetch	VC-2 VC-3	None *
	Muhlenbergia	VC-2	None
	PLUMMER'S MARIPOSA CILY	VC-2	None
	COAST HORNED LIZARD	BIOL. MONITOR	None
	occupied habitat		

**NOTES AND RECOMMENDATIONS:**

\* Braunton's milk vetch is located in this area but not in the portion cleared today.

Area supports suitable habitat for California species of special concern (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/4/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South	SS-52 SS-51	0930-1430	GS	MMGS

\* 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-52	Braunton's milkvetch	GS-1	8 damaged
SS-52	Malibu baccharis	GS-1	24 damaged
SS-51	Braunton's milkvetch	GS-1	1 damaged
SS-51	Malibu baccharis	GS-1	2 damaged

## NOTES AND RECOMMENDATIONS:

Mountain lion scat seen in SS-52.

Biologist Signature: \_\_\_\_\_

Date: 8/4/11

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

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 05 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-tract	Site Section	Time	Activities Monitored	Equipment Used
5D South	SS-59	0655-0955 1055-1355	VC	Chipper, Skid Steer, chain saws, weed whackers

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

**MONITORING RESULTS**

Site Section	Abiotic and Resources Encountered	AVM's Implemented	Residual Impacts
SS-59	Nesting birds Protected trees	VC-1 Ventura Co. Trim Guidelines	None trees trimmed
	Braunton's Milk-vetch	VC-2 VC-3	None
	Malibu baccharis	VC-2	None
	Plummer's Mariposa Lily	VC-2	None
	Coast horned Lizard occupied habitat	Biol. monitor	None

**NOTES AND RECOMMENDATIONS:**

Area supports suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed Snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/5/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

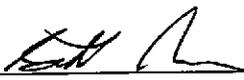
Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South	SS-51	0800-0900	GS	MMGS

\* 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	GS-1	None
SS-51	Malibu baccharis	GS-1	None

### NOTES AND RECOMMENDATIONS:

Biologist Signature: 

Date: 8/5/11

HGL Field Supervisor Signature: 

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 08 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Time	Activity Monitored	Equipment Used
5D South	SS-59	0700-0955	VC	Chipper, chain saws, weed whackers, skid steer w/ forks
NBZ-W	PII	0935-1000 1105-1400	"	"

\* 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	Biological Resources Encountered	AVM's Implemented	Residual Impacts
SS-59	Nesting birds	VC-1	None
	protected trees	Ventura Co. Trim. Guidelines	Trees trimmed
	Braunton's MILK-vetch	VC-2 VC-3	None
	Malibu bunchgrass	VC-2	None
	Plummer's Mariposa Lily	VC-2	None
	Coast horned Lizard occupied habitat	Biol Monitor	None
PII	Nesting birds	VC-1	None
	protected trees	Ventura Co. Trim. Lines	Trees trimmed
	Santa Susana tarplant	VC-2 VC-10	None
	Dudleya	VC-2 VC-9	None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

\* Observed pair of mature Red-tailed hawks entering well established stick nest on sandstone outcrop cliff face. Nest is in afternoon shade, can not visualize interior of nest. Unlikely that it is an active nest but will investigate further tomorrow morning.

Both areas SS-59 & PII support suitable habitat for California special concern species (Coast horned Lizard, Coast Patch-nosed snake, San Diego Desert woodrat).

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/8/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South	SS-51	0800-1030	GS	TMGS
5D South	SS-59	1330-1430	GS	TMGS

\* 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	GS-1	None
SS-59	Plummer's mariposa lilies	GS-1	None

## NOTES AND RECOMMENDATIONS:

Biologist Signature: 

Date: 8/8/11

HGL Field Supervisor Signature: 

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 09 AUGUST 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub area	Survey Section	Time	Activity Monitored	Equipment Used
NBZ-W	PII	0710-1000 1100-1400	VC	Chipper, skid steer w/ fork, chain saws, weed whackers

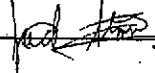
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

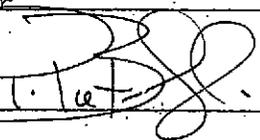
Survey Section	Biological Resources Encountered	AMMs Implemented	Residual Impacts
PII	Nesting birds * protected trees Santa Susana tarplant Rudleya	VC-1 Verruca Co. Trim. Guidelines VC-2 VC-10 VC-2 VC-9	None Trees trimmed None None

**NOTES AND RECOMMENDATIONS:**

\* Red-tailed hawk nest, first observed yesterday occupied by 2 adult birds is empty; no eggs, young or adults in or near nest. This is as I expected due to the late date. Red-tailed hawk nesting season has pretty much ended. Although this nest was most likely active earlier in the season this year it is now inactive.

Biologist Signature: 

Date: 12 AUGUST 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 8/9/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	PII	0700-0830	VC	Chainsaws, chipper, skid steer, front loader, weed whackers
5D South	SS-51	1000-1430 1230-1400	GS	ERGS
8 South	SS-51	1100-1130	GS	MMGS

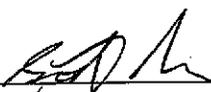
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
PII	Red-tailed hawk nest (confirmed inactive)	VC-1	None
PII	Southern California rufous-crowned sparrow	VC-1	None
SS-51	Braunton's milkvetch	GS-1	2 destroyed before I arrived (possibly from yesterday).
SS-51	Malibu baccharis	GS-1	None

**NOTES AND RECOMMENDATIONS:**

PII: Pair of red-tailed hawks agitated at VC crew and going back and forth to inactive nest. Nest must have been active earlier this year. Scanning ahead of VC crew while Jack Stone monitors more closely. Rufous-crowned sparrow seen in same approx. location as during clearance survey on 8/5: UTM 341487E, 3789027N.

Biologist Signature: 

Date: 8/9/11

HGL Field Supervisor Signature: 

Date: 9/27/2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/10/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	P11	0700-1300	VC	Chainsaws, chipper, skid steer, front loader, weed whackers, mower
5D South	SS-51	1330-1400	GS	MMGS, TMGS

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

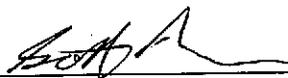
## MONITORING RESULTS

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
P11	San Diego desert woodrat	VC-1	None (habitat reduced)
P11 (P2M)	Southern California rufous-crowned sparrow	VC-1	None
SS-51	Braunton's milkvetch	GS-1	None
SS-51	Malibu baccharis	GS-1	None

### NOTES AND RECOMMENDATIONS:

P11: San Diego desert woodrat confirmed observed in sugar bush. All woodrat nests were already protected, but this is first confirmed occurrence on EPA project. Mower briefly operated in this area but was halted after this observation.

Biologist Signature: \_\_\_\_\_



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

8/10/11

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



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

9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 11 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Time	Activity Monitored	Equipment Used
NBZ-W	P1I	0712-1000 1055-1400	VC	Chipper, skid steer, chain saws, skip loader & loppers

\* 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 Implemented	Residual Impacts
P1I	Nesting birds protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees Trimmed
	Santa Susana Tarplant Rudbeckia	VC-2 VC-10 VE-2 VC-9	None None
	Coast horned lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

\* Vegetation has been cut w/ rotary mower mounted on skid steer to a height less than the 6" minimum as mentioned in the Biological Opinion and elsewhere. I halted further use of mower in this area due to the potential adverse impacts on sensitive species including:

- Coast horned lizards
- San Diego desert woodrat
- Coast patch-nosed snake

} CA Dept. of Fish & Game  
Species of Special Concern  
(SSC)

Biologist Signature: Jack Stone

Date: 12 August 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/11/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South/ 5D South	SS-58 SS-51	0700-0920	GS	MMGS
8 South	SS-52	0920-1030	GS	TMGS
NBZ-W	PII	1130-1200	VC	Chainsaws, chipper, skid steer, front loader, weed whackers
8 South	SS-52	1200-1345	GS	MMGS

\* 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 (5D South and 8 South)	Braunton's milkvetch	GS-1	1 damaged from yesterday
SS-52	Braunton's milkvetch	GS-1	7 damaged (TMGS)
SS-52	Malibu baccharis	GS-1	1 damaged (TMGS)
SS-52	Plummer's mariposa lily	GS-1	None
PII	San Diego desert woodrat, Santa Susana Tarplant, Rufous-crowned sparrow	VC-1, VC-9	None

### NOTES AND RECOMMENDATIONS:

SS-52: Plummer's mariposa lily observed at UTM 341808E, 3788514N (may be outside of current pop. polygon).

Lesser goldfinch nest in SS-59 still active with nestlings. Nearby northern mockingbird nestlings (2 or more) have fledged and are begging nearby.

Biologist Signature: \_\_\_\_\_

Date: 8/11/11

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

Date: 9/27/2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/12/2011 Friday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South	SS-52	0700-0745	GS	MMGS
NBZ-W	PII	1100-1145	GS	ERGS

\* 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-52	Braunton's milkvetch	GS-1	none
SS-52	Malibu baccharis	GS-1	None

## NOTES AND RECOMMENDATIONS:

Biologist Signature: \_\_\_\_\_

Date: 8/12/11

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

Date: 9/07/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 15 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1I	0655-1000 1105-1400	VC	chipper, chain saws, weed whackers, skid steer, skip 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	AWM's Implemented	Residual Impacts
P1I	nesting birds protected trees	VC-1 Ventura Co. Trin. Guidelines	None observed Trees trimmed
	Santa Susana Tar plant budleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned lizard occupied habitat	Biol. Monitor	None
	riparian habitat	Selective thinning bio monitor present	Selective thinning only

**NOTES AND RECOMMENDATIONS:**

- Ephemeral streamside/riparian drainage located in veg. clearing crews work area. Plants located in the bottom of this drainage were only selectively thinned but cutting of plants was minimal in order to prevent degradation of riparian zone. Selective thinning should allow gamma radiation scanning without serious adverse impacts on riparian habitat.
- Area supports suitable habitat for CA special concern species (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat)

Biologist Signature: Jack Stone

Date: 02 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/15/2011 Monday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
5D South	SS-58	0800-1030	GS	TMGS
NBZ-W	P11	1100-1145	GS	ERGS

\* 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-58	Braunton's milkvetch	GS-1	none
P11	Woodrat nests	GS-1	None
P11	Santa Susana tarplant	GS-1	None

### NOTES AND RECOMMENDATIONS:

Loggerhead shrike observed in SE SS-56.

Biologist Signature: 8/15/11 [Signature]

Date: 8/15/11

HGL Field Supervisor Signature: [Signature]

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 16 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	PII	0720-1000 1120-1355	VC	Chipper, skid steer, skip loader chain saws, weed whackers
	PIA	1330-1355	"	chain saws, loggers

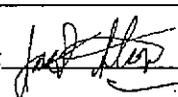
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

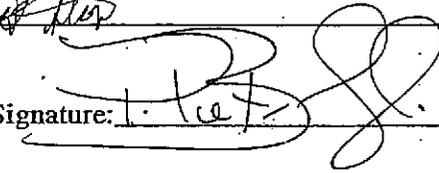
Survey Section	Biological Resources Encountered	AVM's Implemented	Residual Impacts
PII, A	Nesting birds protected trees	VC-1 Verbra Co. Trim. Guidelines	None trees trimmed
	Santa Susana Tarplant Dudleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None
PII	riparian habitat	Thinning, bio monitor	Vegetation thinned only.

**NOTES AND RECOMMENDATIONS:**

- Plants in drainage thinned, NOT clear cut. See Notes 15 Aug. '11.
- Area supports suitable habitat for California special concern species (Coast horned Lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: 

Date: 02 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 8/16/2011 Tuesday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
8 South/ 5D South	SS-51	1100-1130	n/a	Inspecting for any MMGS impacts from last week.
NBZ-W	P1I	1200-1230	GS	TMGS

\* 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 (8 South)	Braunton's milkvetch	GS-1	2 damaged, 1 destroyed
SS-51 (5D South)	Braunton's milkvetch	GS-1	2 damaged
SS-51	Malibu baccharis	GS-1	None
P1I	Suitable habitat for California special concern species	GS-1	None
P1I	Dudleya	GS-1	None

**NOTES AND RECOMMENDATIONS:**

Last week, MMGS in SS-51 was allowed by the biologist to proceed without direct monitoring (biologist was nearby with ERGS) because MMGS team has done a good job of minimizing milkvetch impacts. This area was checked for any impacts after the fact today.

Loggerhead shrike observed in SE SS-43.

Biologist Signature: \_\_\_\_\_



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

8/16/11

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



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

9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 17 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1 I	0720-1000 1105-1315	VC	Chipper
"	P1 A	"	"	Chain saws, weed whackers, loppers

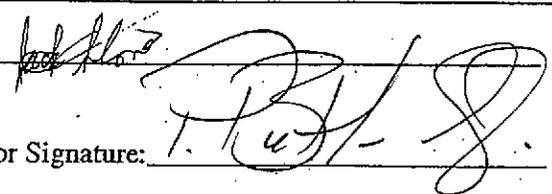
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

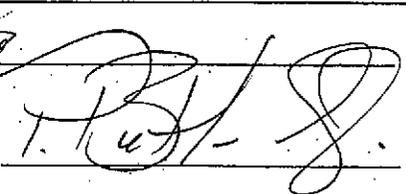
Survey Section	Biological Resources Encountered	MMI Implemented	Residual Impacts
P1 I, A	Nesting birds protected trees Santa Susana tarplant Pridmorea Coast horned lizard occupied habitat	VC-1 Ventura Co. TRIM Guidelines VC-2 VC-10 VC-2 VC-9 Biol. Monitor	None Trees trimmed None None None

**NOTES AND RECOMMENDATIONS:**

- Talked to Preston Skeath (TPC) and Manuel Vargas (LOI) reiterating that vegetation located in drainage bottom may be thinned but not cleared entirely.  
See notes 15 Aug '11.
- Areas support suitable habitat for California special concern species (coast horned lizard, coast patch-nosed snake, San Diego Desert woodrat).

Biologist Signature: 

Date: 02 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/18/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	P1A	0700-1345	VC	Chainsaws, loppers, skid steer, chipper

\* 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
P1A	Nesting birds	VC-1	None
P1A	Santa Susana tarplant	VC-10	None
P1A	Protected trees (coast live oak, walnut)	GS-1, Tree ordinance	None
P1A	Suitable habitat for California special concern species	GS-1, VC-1	None
P1A	Riparian habitat	App. N-3	None

## NOTES AND RECOMMENDATIONS:

Mourning dove nest in P1A still active; dove is sitting on nest.

Shrubs along riparian ephemeral drainage left intact with some thinning to allow passage of GS equipment.

Possible Plummer's mariposa lily (desiccated fruit observed), flagged at UTM 341853E, 3789217N.

GS team observed 2 juv horned lizards in their area today and avoided them. (P1I) Approx UTM 341512E, 3789013N.

Biologist Signature: \_\_\_\_\_

Date: 8/18/11

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

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 8/19/2011 Friday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	PIA	0700-1345	VC	Chainsaws, loppers, skid steer, chipper

\* 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
PIA	Nesting birds	VC-1	None
PIA	Santa Susana tarplant	VC-10	None
PIA	Protected trees (coast live oak, walnut)	GS-1, Tree ordinance	None
PIA	Suitable habitat for California special concern species	GS-1, VC-1	None
PIA	Riparian habitat	App. N-3	None

**NOTES AND RECOMMENDATIONS:**

Mourning dove nest in P1A still active; dove is sitting on nest. Nest buffer established on west side where VC is approaching area.

2 Cooper's hawks flying over P1I.

Shrubs along riparian ephemeral drainage left intact with some thinning to allow passage of GS equipment.

Biologist Signature: 

Date: 8/19/11

HGL Field Supervisor Signature: 

Date: 9/6/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 22 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1A	0710-1000 1105-1400	VC	chipper, chain saws, weed whackers, skid steer

\* 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 Resource/Plant/animal	MMIS Implemented	Residual Impact
P1A	Nesting birds	VC-1	None
	protected trees	Ventura Co. TMA Guidelines	Trees trimmed
	Santa Susana Tarplant	VC-2 VC-10	None
	Pudloja	VC-2 VC-9	None
	Coast horned lizard occupied habitat	Bioc. monitor	None
	San Diego Desert woodrat	Bioc. monitor	None
	Plummer's Mariposa Lily	VC-2	None

**NOTES AND RECOMMENDATIONS:**

- Plants in drainage thinned, see notes 15 Aug. '11:
- Area supports suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: \_\_\_\_\_

*Jack Stone*

Date: 02 September 2011

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

*[Signature]*

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

14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 8/22/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	PIA	0700-0830 1115-1145	VC	Chainsaws, loppers, skid steer, chipper
NBZ-W	PII	0830-1115	GS	TMGS, STGS

\* 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
PIA	Nesting birds	VC-1	None
PIA, PII	Santa Susana tarplant	VC-10	None
PIA, PII	Protected trees (coast live oak, walnut)	GS-1, Tree ordinance	None
PII	Coast horned lizard	GS-1	Relocated 100 feet away to uncut chaparral
PIA, PII	Suitable habitat for California special concern species	GS-1, VC-1	None
PIA	Riparian habitat	App. N-3	None

**NOTES AND RECOMMENDATIONS:**

Young horned lizard (SVL 33mm; UTM 341512E, 3789013N) in PII was relocated out of harm's way 100 ft to an uncut area of chaparral with greater cover.

Mourning dove nest in PIA still active; dove is sitting on nest.

Biologist Signature: 

Date: 8/22/11

HGL Field Supervisor Signature: 

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 23 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activity Monitored	Equipment Used
NBZ-W	P1A	0710-1000 1110-1400	VC	chipper, chain saws, weed whackers skid steer

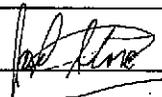
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

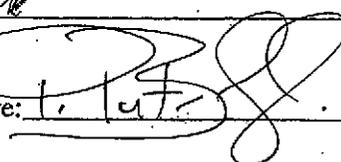
Survey Section	Protected Resources Encountered	MMs Implemented	Residual Impacts
P1A	Nesting birds protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
	Santa Susana Tarplant	VC-2 VC-10 VC-2 VC-9	None None
	Woodpecker	VC-2 BIOL. MONITOR	None None
	Common Mariposa Lily Coast Horned Lizard occupied habitat		

**NOTES AND RECOMMENDATIONS:**

- Plants in drainage thinned, see note 15 Aug. '11.
- Area supports suitable habitat for California special concern species (Coast Horned Lizard, Coast Patch-nosed Snake, San Diego Desert Woodrat).

Biologist Signature: 

Date: 02 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 24 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1A	0705-1000 1105-1400	VC	Chipper, chain saws, skip loader, skid steer,

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

**MONITORING RESULTS**

Site Section	Biological Resources Encountered	AVM's Implemented	Resulting Impacts
P1A	Nesting birds protected trees	VC-1 Ventura Co. Trim. Guidelines	None TREES TRIMMED
	Santa Susana Tarplant Pudleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None
	Plummer's Mariposa Lily	VC-2	None

**NOTES AND RECOMMENDATIONS:**

- Plants in drainage thinned. see notes 15 Aug '11.
- Area supports suitable habitat for California special concern species (coast horned lizard, coast patch-nosed snake, San Diego desert wood).

Biologist Signature: \_\_\_\_\_

*Jack Stone*

Date: 02 September 2011

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

*t. [Signature]*

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 25 AUGUST 2011

Biologist: Jack Stone

## ACTIVITIES MONITORED

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1B	0655-1000 1100-1400	VC	Weed whackers, chain saws, chipper

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

## MONITORING RESULTS

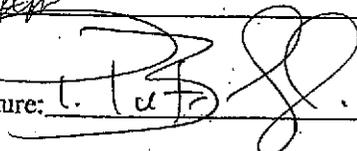
Survey Section	Protected Resources Encountered	AVM's Implemented	Residual Impacts
P1B	Protected trees Santa Susana Tarplant	Ventura Co. T.M. Guidelines VC-2 VC-10	Trees trimmed None
	Potential Coast Horned Lizard Habitat	Biol. monitor	None
	Dudleya Nesting bird habitat	VC-2 VC-9	None
	Woodrat nests	VC-1 Biol. monitor	None None

### NOTES AND RECOMMENDATIONS:

- \* Told veg. crew chipper operator to re-direct chips/debris away from flagged protected plants. Removed larger chips from plants by hand. No protected plants (Santa Susana tarplant) were damaged.
- Numerous woodrat nests protected. Potential San Diego desert woodrat (CA Fish & Game Species of Special Concern) habitat.
- Also suitable habitat for California special concern species Coast horned lizard, coast patch-nosed snake, silvery legless lizard (in woodland)
- Shrubs in riparian ephemeral habitat left intact, thinned/trimmed to reduce impact.

Biologist Signature: 

Date: 05 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 26 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-W	PIB	0655-1000 1100-1400	VC	Chipper, chain saws, weed whackers, skid steer, skip 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**

Site Section	Protected Resource Encountered	AVMs Implemented	Residual Impacts
PIB	Protected trees Santa Susana Tarplant	Ventura Co. Trim Guidelines VC-2 VC-10	Trees trimmed None
	Coast Horned Lizard occupied habitat	BIOL. monitor	None Relocated one juvenile
	Pudleya nesting bird habitat	VC-2 VC-9 VC-1	None None
	Woodrat nests	BIOL. monitor	None

**NOTES AND RECOMMENDATIONS:**

Shrubs in ephemeral riparian habitat left intact, selective thin/trim to allow GS while minimizing adverse impacts.

- \* Some chips/debris from chipper landed on protected Santa Susana Tarplants. No damage to plants. Larger chips removed by hand.
- Juvenile Coast Horned Lizard found/relocated today (CA Fish & Game Species of Special Concern)
- Numerous woodrat nests protected. Potential San Diego Desert Woodrat (CA Fish & Game Species of Special Concern) habitat.
- Area provides suitable habitat for other California special concern species (Coast patch-nosed snake, silvery legless lizard (in woodland)).

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 29 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1B	0705-1000 1100-1400	VC	Chipper, skid loader, skid steer chain saws

\* 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	AVM's Implemented	Residual Impacts
P1B	Protected trees Santa Susana Tarplant	Ventura Co. Trim Guidelines VC-2 VC-10	Trees Trimmied None
	Coast Horned Lizard Occupied Habitat	BIOL. MONITOR	None
	Pudleya Nesting bird habitat	VC-2 VC-9 VC-1	None None
	Woodrat nests	BIOL. MONITOR	None

**NOTES AND RECOMMENDATIONS:**

Shrubs in riparian ephemeral habitat left intact, selectively thinned/trimmed to allow GS while minimizing adverse impacts.

\* Chips & debris output by chipping activity landed on Santa Susana Tarplants. No damage, larger chips removed by hand.

- Numerous woodrat nests protected. Potential San Diego Desert Woodrat (CA Fish & Game species of Special Concern) habitat.

- Area provides suitable habitat for other California Special Concern species (Coast Horned Lizard, Coast patch-nosed snake, Silvery legless lizard in woodland).

Biologist Signature: 

Date: 05 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 8/29/2011 Monday

Biologist: Scott Werner

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	P1B	1130-1230	VC	Chainsaws, loppers, skid steer, chipper
NBZ-W	P1A	1300-1350	GS	TMGS

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

**MONITORING RESULTS**

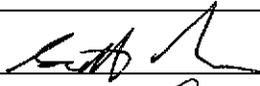
Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
P1A, P1B	Santa Susana tarplant	VC-10	None
P1A, P1B	Protected trees (coast live oak, walnut)	GS-1, Tree ordinance	None
P1A, P1B	Suitable habitat for California special concern species	GS-1, VC-1	None
P1A, P1B	Riparian habitat	App. N-3	Some siltation into drainage - must be removed after scanning

**NOTES AND RECOMMENDATIONS:**

Checking in on VC progress at P1B. Jack Stone had a horned lizard earlier in day (see his report).

VC and GS activities have resulted in some siltation in ephemeral creek bottoms at several crossings. After these activities are completed, the soil must be removed so that the natural flow is not altered.

Mourning dove nest in P1A is done (nestling appears to have fledged). The rest of P1A will be surveyed tomorrow to allow VC and GS.

Biologist Signature:  Date: 8/29/11

HGL Field Supervisor Signature:  Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 30 August 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Site Section	Time	Activity Monitored	Equipment Used
NBZ-W	P1B	0705-1000 1100-1400	VC	Chipper, chain saws, weed whackers, skid steer, skip loader, loppers

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

**MONITORING RESULTS**

Site Section	Reported Resources Encountered	AMMs Implemented	Residual Impacts
P1B	Protected trees Santa Susana Torpquant		
	Coast Horned Lizard Occupied habitat		
	Pudleya NESTING bird habitat		
	Woodrat NESTS		

**NOTES AND RECOMMENDATIONS:**

Shrubs in riparian ephemeral drainage selectively thin trim but left intact to reduce adverse impact.

- \* Some output from chipper landed on protected Santa Susana torpquants, no damage, large chips removed by hand.
- Numerous woodrat nests protected. Possible San Diego Desert Woodrat (CA Fish & Game Species of special concern) habitat.
- Area also provides suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, silvery legless lizard in woodland).

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 31 August 2011

Biologist: Jack Stone

## ACTIVITIES MONITORED

Site Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P10	0640-1050 1105-1400	VC	chipper, skid steer, skip loader, chain saws, weed whackers

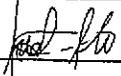
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

## MONITORING RESULTS

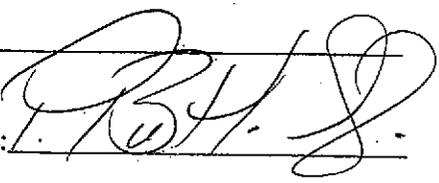
Survey Section	Biological Resources Encountered	AMM Implemented	Results/Impacts
P10	Protected trees Santa Susana Tarplant Coast Horned Lizard occupied habitat Potential Legless Lizard habitat Dudleya Nesting bird habitat Woodrat nests		

### NOTES AND RECOMMENDATIONS:

- Cautioned chipper operator again about redirecting output away from protected plants. No damage, removed some larger chips by hand.
- Veg. clearing activities now in dense Coast live oak woodland w/ ephemeral stream. Has NOT been previously trimmed or cleared, numerous dead limbs on woodland substrate, ideal legless lizard habitat.
- Numerous woodrat nests protected, potential San Diego Desert Woodrat (CA Fish & Game Species of Special Concern) habitat.

Biologist Signature: 

Date: 05 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 8/31/2011 Wednesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	P1B, P1C	0800-1100 1215-1400	GS	TMGS, ERGS
NBZ-W	P1B	1215-1400	VC	Chainsaws, chipper, skid steer, weed whackers

\* 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
P1B	Santa Susana tarplant	VC-10	None
P1B	Protected trees (coast live oak, walnut, California bay)	GS-1, Tree ordinance	None
P1B, P1C	Occupied coast horned lizard habitat	VC-1	
P1B	Suitable habitat for California special concern species	GS-1, VC-1	None
P1B	Riparian habitat	App. N-3	Some siltation buildup but not within the actual channel.

## NOTES AND RECOMMENDATIONS:

VC and GS activities have resulted in heavy buildup of loose soil near ephemeral creek bottom in P1A. Skid steer driver was advised to keep on hard packed soils and restricted from getting too far upslope, as well as into the actual creek bottom. Heavy duff buildup in ephemeral creek bottom likely supports aestivating amphibians, and equipment operated there should minimize soil/duff disturbances to the greatest extent possible.

After leaving NBZ-W I observed a Santa Susana tarplant on SS-9 in bloom and with vigorous growth that had been crushed by SS team earlier in project. It had been assumed that this plant died but that did not in fact occur.

Biologist Signature: \_\_\_\_\_

Date: 8/31/11

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

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 01 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	PIB	0720-1000 1100-1400	VC	chipper, chain saws, weed whacker, skid loader, skid steer

\* 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	AVM Implemented	Residual Impacts
PIB	Protected trees Santa Susana Tarplant Coast Horned Lizard Occupied Habitat		
	Potential Legless Lizard Habitat		
	Dudleya Nesting bird habitat Woodrat nests		

**NOTES AND RECOMMENDATIONS:**

- \* Cleaned up / removed debris from protected Santa Susana Tarplants. 99% of output from chipper not falling on tarplants.
- Veg. clearing crew still working in dense Coast Live Oak woodland w/ high potential for legless lizards.
- Numerous woodrat nests protected. Potential San Diego Desert Woodrat (CA Fish & Game species of special concern habitat).

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/1/2011 Thursday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	P1I	0700-0730	VC	Chainsaws
NBZ-W	P1B	0730-1100	GS	TMGS, ERGS
8 South	SS-49	1000-1100	SS (recon)	GPR cart, foot traffic, stakes
6	SS-34	1100-1115	SS (recon)	[None yet working in sensitive area]

\* 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
P1B	Santa Susana tarplant	GS-1	None
P1B, P1I	Protected trees (coast live oak, walnut, California bay)	VC-1, GS-1, Tree ordinance	None
P1B	Occupied coast horned lizard habitat	GS-1	
P1B	Suitable habitat for California special concern species	GS-1	None
P1B	Riparian habitat	App. N-3	None
SS-49 SS-59	Braunton's milkvetch	SS-1	None
SS-49 SS-59	Malibu baccharis	SS-1	None
SS-34	Vernal pool branchiopod habitat (dry)	SS-34	None

### NOTES AND RECOMMENDATIONS:

P1B: Big-eared woodrat (*Neotoma macrotus*) observed in the area. Potential for San Diego desert woodrat (*Neotoma lepida intermedia*).

SS Reconnaissance crew is establishing SS points in newly discovered Braunton's milkvetch population in SS-49. A brief orientation was given to the crew to review the identification, habitat, and protection measures required for this endangered species. Crew says sampling will begin around October 1.

SS Crew in SA-6 advised to move their sampling point to just outside of the vernal pool branchiopod habitat in the SW corner of SS-34.

Biologist Signature: 

Date: 9/1/11

HGL Field Supervisor Signature: 

Date: 9/5/2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 02 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1B	0705-1000 1110-1400	VC	Chipper, chain saws, weed whackers, skid steer, skip loader, Loppers

\* 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	A/V/M's Implemented	Residual Impacts
P1B	Protected trees Santa Susana tarplant	Ventura Co. Trim. Guidelines VC-2 VC-10	Trees trimmed None
	Coast Horned Lizard occupied habitat	Biol. monitor	None
	Potential Legless Lizard habitat	Biol. monitor	None
	Dudleya nesting bird habitat	VC-2 VC-9 VC-1	None None
	Woodrat nests	Biol. monitor	None

**NOTES AND RECOMMENDATIONS:**

- \* Most output from chipper directed away from protected Santa Susana tarplants.
- Veg. clearing work still in dense Coast Live Oak Woodland / ephemeral riparian zone which is ideal Legless Lizard Habitat.
- Numerous woodrat nests protected, possible San Diego Desert Woodrat (CA Fish & Game Species of special concern) habitat.

Biologist Signature: Jack Stone

Date: 05 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 06 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1B	0655-1000 1100-1400	VC	Chipper, chain saws, weed whackers, skid steer, skip loader, loppers

\* 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	Biological Resources Encountered	AMM's Implemented	Residual Impacts
P1B	nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees Trimm'd
	Santa Susana tarplant Dudleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast Horned Lizard occupied habitat	Biol. monitor	None
	Potential Legless Lizard habitat	" "	None
	Woodrat nests	" "	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for several CA Dept. of Fish & Game species of special concern (Coast horned Lizard, coast patch-nosed Snake, silvery legless Lizard in woodland, San Diego Desert woodrat.
- Shrubs in ephemeral riparian drainage selectively thinned/trimmed but not clear cut to reduce adverse impacts while allowing gamma radiation scanning.

Biologist Signature: Jack Stone

Date: 06 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/6/2011 Tuesday

Biologist: Scott Werner

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	PIF	0700-1100	GS	TMGS

\* 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
P1F	Santa Susana tarplant	GS-1	None
P1F	Protected trees (coast live oak, walnut, California bay)	GS-1, Tree ordinance	None
P1B	Suitable habitat for California special concern species (Coast horned lizard, California legless lizard)	GS-1	None

## NOTES AND RECOMMENDATIONS:

Scanning around outfall in P1F near sandstone outcrops and in coast live oak woodland. Oak duff inspected for protected reptiles but none observed.

Biologist Signature: \_\_\_\_\_

*Scott Werner*

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

*9/6/11*

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

*Colleen Pereira*

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

*9/27/2011*

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 07 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1B	0700-1000 1105-1400	VC	Chipper, skid steer, chain saws, weed whackers, skid loader, loppers

\* 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	Potential Resources Encountered	AVM Implemented	Residual Impacts
P1B	Nesting bird habitat Protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees trimmed
	Santa Susana Tarplant valleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat		
	Potential Legless Lizard habitat		
	Plummer's Mariposa Lily Woodrat nests	VC-2	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for several CA Dept. of Fish & Game species of special concern (Coast horned Lizard, Coast patch-nosed Snake, Silvery Legless Lizard in woodland, San Diego Desert Woodrat).
- Shrubs in ephemeral riparian drainage selectively thinned/trimmed but NOT clearcut in order to reduce adverse impacts while allowing gamma radiation scanning.

Biologist Signature: \_\_\_\_\_

*Jack Stone*  
*[Signature]*

Date: 07 September 2011

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

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

*14 Oct 2011*

## BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9/7/2011 Wednesday

Biologist: Scott Werner

### ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored*	Equipment Used
NBZ-W	P1I	0800-0900	VC	Chainsaws, weed whackers, chipper, skid steer
NBZ-W	P1A, P1B	0730-1100	GS	TMGS, ERGS
8 South	SS-49	1000-1100	SS (recon)	GPR cart, foot traffic, stakes
6	SS-34	1100-1115	SS (recon)	[None yet working in sensitive area]

\* 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
P1A, P1B, P1J	Santa Susana tarplant	VC-10, GS-1	None
P1A, P1B, P1J	Protected trees (coast live oak, walnut, California bay)	VC-1, GS-1, Tree ordinance	None
P1A, P1B	Occupied coast horned lizard habitat	VC-1, GS-1	
P1A, P1B	Suitable habitat for California special concern species	VC-1, GS-1	None
P1A, P1B	Riparian habitat	App. N-3	None
P1A, P1B, P1J	Plummer's mariposa lily	VC-1, GS-1	None

#### NOTES AND RECOMMENDATIONS:

VC crew working along southern intersection of P1A and P1B. Advising other biologist (Jack Stone) of locations of Plummer's mariposa lily (fruits present) and Santa Susana tarplant.

Biologist Signature: \_\_\_\_\_

Date: 9/7/11

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

Date: 9/27/2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
ENVICOM CORPORATION

Date: 09 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub- Area	Site Section	Time	Activity Monitored	Equipment Used
NBZ-W	PIC	0700-1000 1100-1400	VC	Chain saws, weed whackers

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

**MONITORING RESULTS**

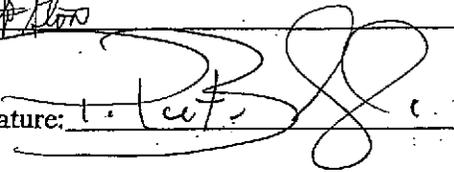
Site Section	Protected Resources Encountered	AMM Implemented	Residual Impacts
PIC	Nesting bird habitat Protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees trimmed
	Santa Susana Tarplant Dudleya	VC-2 VC-10 VC-7 VC-9	None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned Lizard, coast patch-nosed snake, San Diego desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to prevent adverse impacts while allowing gamma radiation scanning to proceed.

Biologist Signature: 

Date: 09 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 12 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1C	0700-1000 1110-1400	VC	Chain saws, weed whackers, Skip loader

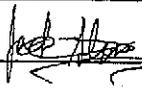
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

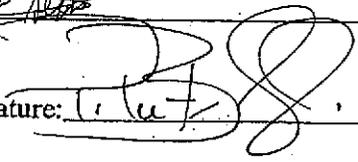
Site Section	Photo and/or notes encountered	AVM Implemented	Residual Impacts
P1C	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
	Santa Susana Tarplant budleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	Biol. monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed snake, San Diego desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to prevent adverse impacts while allowing GS activities to continue.

Biologist Signature: 

Date: 12 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 13 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Sub Section	Time	Activity Monitored	Equipment Used
NBZ-W	PLC	0650-1000 1055-1400	VC	Chain saws, weed whackers, Skip loader, Loppers

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

**MONITORING RESULTS**

Sub Section	Biological Resources Encountered	AMM's Implemented	Residual Impact
PLC	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
	Santa Susana tarplant Dudleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	BIOL. monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed (thinned to protect habitat while allowing GS).

Biologist Signature: Jack Stone

Date: 13 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 14 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1C	0655-1000 1100-1400	VC	Chain saws, weed whackers, loppers, skip 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**

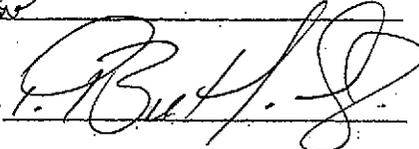
Site Section	Biological Resources Encountered	AWM's Implemented	Residual Impact
P1C	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
	Santa Susana Tarplant Duckeye	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	BIOL MONITOR	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California Special concern species (coast horned lizard, coast patch-nosed snake, San Diego desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to protect habitat while allowing GS.

Biologist Signature: 

Date: 14 September 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
ENVICOM CORPORATION

Date: 15 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Sub-Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1C	0645-1000 1110-1400	VC	Chain saws, weed whackers, chipper x2, skid steer x2, Loppers (1 skid steer using rotary mower to mulch cut brush piles)

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

**MONITORING RESULTS**

Sub-Section	Protected Resources Encountered	AVMs Implemented	Residual Impacts
P1C	Nesting bird habitat	VC-1	None
	Protected trees	Ventura Co. Trim. Guidelines	Trees trimmed
	Santa Susana Tarplant	VC-2 VC-10	None
	Woodpecker	VC-2 VC-9	None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California Special Concern Species (Coast horned Lizard, coast patch-nosed snake, San Diego desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to reduce adverse impacts while allowing GS.

Biologist Signature: Jack Stone

Date: 15 September 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 16 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Survey Section	Time	Activity Monitored	Equipment Used
NBZ-W	PLC	0700-1000 1100-1400	VC	chipper x2, skid steer x2 (1 w/ rotary mower mulching brush piles), chain saws, weed whackers, skip loader, loppers

\* 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	ASMEs Implemented	Residual Impacts
PLC	Nesting bird habitat Protected trees	VC-1 Ventura Co. Trim-Guidelines	None Trees Trimmed
	Santa Susana Tarplant Mudcra	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	Biol - monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for CA special concern species (coast horned lizard, coast patch-nosed snake, San Diego Valent woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to reduce adverse impacts while accounting GS.

Biologist Signature: Jack Stone

Date: 02 October 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 19 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-Area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	PLC	0650-1000 1100-1400	VC	chipper x2, skid steer x2, chain saws, weed whackers, loppers, skip loader

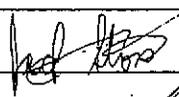
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

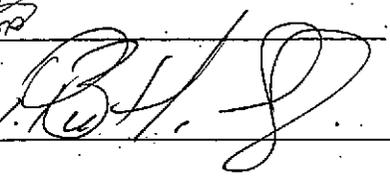
**MONITORING RESULTS**

Survey Section	Biological Resources Encountered	MMI's Implemented	Residual Impacts
PLC	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees trimmed
	Santa Susana Tarplant budleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed snake, San Diego desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to reduce adverse impacts while allowing GS.

Biologist Signature: 

HGL Field Supervisor Signature: 

Date: 02 October 2011

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 20 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Time	Activity Monitored	Equipment Used
NBZ-W	P1C	0645-1000 1115-1400	VC	chipper, skid steer, chain saws, weed whackers, skip loader

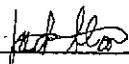
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

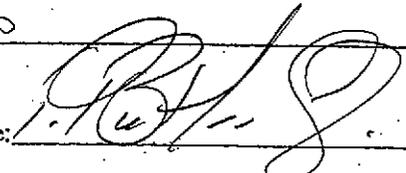
Survey Section	Biological Resources Encountered	AMMs Implemented	Residual Impacts
P1C	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim Guidelines	none trees trimmed
	Santa Susana Tarplant Dudleya	VC-2 VC-10 VC-2 VC-9	none none
	Coast Horned Lizard occupied habitat	Biol. monitor	none

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned lizard, coast patch-nosed snake, San Diego Desert woodrat, silvery legless lizard in woodland).
- Shrubs in ephemeral riparian habitat trimmed/thinned to reduce adverse impacts while allowing GS.

Biologist Signature: 

Date: 02 October 2011

HGL Field Supervisor Signature: 

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 21 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-W	P1C	0650-1000.	VC	Chipper, chain saws, weed whackers, skid steer
NBZ-E	P1D	1100-1400	"	chain saws, weed whackers, skid steer, loppers

\* 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	MMS Implemented	Residual Impacts
P1C	Nesting bird habitat	VC-1	None
	Protected trees	Ventura Co. Trim. Guidelines	trees trimmed
	Santa Susana Tarplant Dudleya	VC-2 VC-10 VC-2 VC-9	None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None
P1D	Nesting bird habitat	VC-1	None
	Protected trees	Ventura Co. Trim. Guidelines	trees trimmed
	Plummer's Mariposa Lily Santa Susana Tarplant Dudleya	VC-2 VC-2 VC-10 VC-2 VC-9	None None None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Both survey sections P1C, D support suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed snake, San Diego desert woodrat, silver legless lizard in woodland).
- In survey section P1C shrubs located in ephemeral riparian habitat trimmed/thinned to reduce adverse impacts while allowing GS.

Biologist Signature: 

Date: 02 October 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 22 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Survey Section	Name	Activities Monitored	Equipment Used
NBZ-W	PLA	0655-1000 1100-1400	VC	chipper, skid steer, chain saws, weed whackers, loppers.

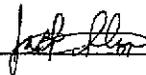
\* VC = Vegetation Clearing, GS = Gamma Scanning, GP = Geophysical Survey, SS = Soil Sampling, MWS = Monitor Well Sampling, SWSS = Surface Water and Sediment Sampling

**MONITORING RESULTS**

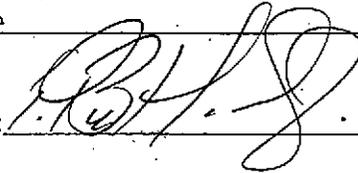
Survey Section	Biological Resources Encountered	AMMs Implemented	Residual Impacts
PLA	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None trees trimmed
	Plummer's Mariposa Lily Santa Susana Tarplant Dudleya	VC-2 VC-7 VC-10 VC-2 VC-9	None None None
	Coast horned lizard occupied habitat	BIOL. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned lizard, Coast patch-nosed snake, San Diego desert woodrat).
- Shrubs in ephemeral riparian habitat trimmed/thinned to protect habitat while allowing GS.

Biologist Signature: 

Date: 02 October 2011

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
ENVICOM CORPORATION

Date: 23 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-W	PIA	0655-1000 1115-1400	VC	Chipper, skid steer, chain saws, weed whackers

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

**MONITORING RESULTS**

Site Section	Biological Resources Encountered	AMM Implemented	Result/Impacts
PIA	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees trimmed
	Plummer's Mariposa Lily	VC-2	None
	Santa Susana Tarplant	VC2- VC-10	None
	Dudleya	VC-2 VC-9	None
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed snake, San Diego desert woodrat).
- Shrubs in ephemeral riparian habitat trimmed/thinned to protect habitat while allowing GS.

Biologist Signature: *Jack Stone*

Date: 01 October 2011

HGL Field Supervisor Signature: *[Signature]*

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 26 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub Area	Site Section	Time	Activity Monitored	Equipment Used
NBZ-W	PIA	0705-1000 1110-1400	VC	Chipper, skid steer w/ rotary mower, chain saws, weed whackers

\* 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	Potential Resources Encountered	MMs Implemented	Residual Impacts
PIA	Nesting bird habitat protected trees	VC-1 VENTURA CO. TRIM GUIDELINES	None TREES TRIMMED
	Plummer's Mariposa Lily	VC-2	None
	Santa Susana Tarplant	VC-2 VC-10	None
	Rudleya	VC-2 VC-9	None
	Coast Horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area supports suitable habitat for CA Special Concern Species (San Diego Desert woodrat, Coast Horned Lizard, coast patch-nosed snake).
- Shrubs in ephemeral riparian habitat trimmed/thinned to protect habitat while allowing GS.

Biologist Signature: Jack Stone

Date: 01 October 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9-26-11

Biologist: Brady Daniels

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
5-59	SD Sub		Soils	augers hand & mechanical
			"	
5-39	Sub 7		"	

\* 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
SD Sub	DM hercharis	discussed with crew	⊗
5-59	nm lily (potentially sensitive) milk catch (bractatus milkcatch)	about veg avoidance and showed crew individuals of each plant	
Sub 7 5-39	Tarplant (Santa Susana tarplant)	showed crew representative plant	⊗

## NOTES AND RECOMMENDATIONS

discussed with Soils crew leader about daily work limits and proposed access & process, walked areas identifying flagged resources and determining that no new flagging is needed. Pointed out protected plants and residual avoidance measures by not trampling or removing protected plant species

Biologist Signature:

Date: 9-26-11

HGL Field Supervisor Signature:

Date: 10/27/11

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 27 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
NBZ-E	P1J	0650-0740	VC	Chain saws, weed whackers, chipper, skid steer
"	P1D	0745-1000 1105-	"	

\* 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	AVM's Implemented	Residual Impacts
P1J	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees previously trimmed
	Plummer's mariposa lily Santa Susana tarplant	VC-2 VC-7 VC-10	None None
P1D	Nesting bird habitat protected trees	VC-1 Ventura Co. Trim. Guidelines	None Trees trimmed
	Plummer's mariposa lily Santa Susana tarplant	VC-2 VC-2 VC-10	None None
	Dudleya Coast horned lizard occupied habitat	VC-2 VC-9 BIOL. MONITOR	None None

**NOTES AND RECOMMENDATIONS:**

Both survey sections P1J & D support suitable habitat for California special concern species (Coast Horned Lizard, Coast patch-nosed snake, silvery legless lizard in woodlands, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 01 October 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

# BIOLOGICAL RESOURCE MONITORING FORM

ENVICOM CORPORATION

Date: 9-27-11

Biologist: *Brady Daniels*

## ACTIVITIES MONITORED

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
65-59	SD south	0630	Soils	Hand auger Mechanical auger
	<del>SD south</del>			
PIC	NBZ-W	GS-Mule team	Mules	

\* 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
SD south	Sensitive plants (D. m. leucich, lilies, M. baccharis)	discussed with crew avoidance measures	<del> </del>
	<del>SD south</del>		
NBZ-W PIC	Oak trees & drainage course.		

### NOTES AND RECOMMENDATIONS

*Soils*

\* CREWS remained in same areas as previous day  
Nothing New needed.

\* Mule team walked proposed scanning area at outfall  
and continuing up slope. No sensitive resources  
observed. Oak trees and drainage channel were  
discussed with crew and crossing of channel will be  
limited as much as possible.

Biologist Signature: *[Signature]*

Date: 9-27-11

HGL Field Supervisor Signature: *[Signature]*

Date: 10-7-2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
 ENVICOM CORPORATION

Date: 28 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Site Section	Time	Activity Monitored	Equipment Used
NBZ-E	P1E	0730-1100 1140-1335	VC	Chain saws, weed whackers, loppers

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

**MONITORING RESULTS**

Site Section	Biological Resources Encountered	AMRs Implemented	Residual Impacts
P1E	Nesting bird habitat * protected trees	VC-1 Ventura Co. Trim. Guiding	None Trees trimmed
	Coast horned Lizard occupied habitat	Biol. Monitor	None

**NOTES AND RECOMMENDATIONS:**

- Area accessed through the Brandeis - Dardin Campus at ADU Simi Valley.
- \* P1E is near Golden eagle nest that was active earlier this season.
- Area supports suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 01 October 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 9-28-11

Biologist: Brady Daniels

**ACTIVITIES MONITORED**

Sub-area	Survey Section	Time	Activities Monitored	Equipment Used
54-59	5 DSatn		Soils	hand & mechanical auger
99-391	sub 7			
	S21		mules	mule

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

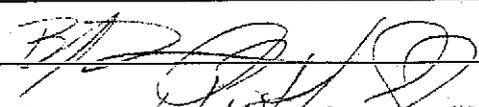
**MONITORING RESULTS**

Survey Section	Protected Resources Encountered	AMM's Implemented	Residual Impacts
5 DSatn	Same as previous days	X	X
sub 7			

**NOTES AND RECOMMENDATIONS**

Soils stayed in same areas no monitoring needed besides morning walk through and discussion on daily work limits with crew leader.

Mules S21 walked with Robert for Dicion no need for biological monitoring of proposed daily ~~activity~~ scanning area

Biologist Signature: 

Date: 9-28-11

HGL Field Supervisor Signature: 

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**

ENVICOM CORPORATION

Date: 29 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Sub-area	Site Section	Time	Activities Monitored	Equipment Used
NBZ-E	PIE	0720-1000 1100-1330	VC	Chain saws, weed whacker, chipper, skid steer w/ mower (to mulch brush piles) & for KS

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

**MONITORING RESULTS**

Site Section	Protected Resources Encountered	AVMPs Implemented	Residual Impacts
PIE	Nesting bird habitat * Protected trees Coast horned Lizard occupied habitat	VC-1 Ventura Co. TRM Guidelines Biol. Monitor	None Trees trimmed None

**NOTES AND RECOMMENDATIONS:**

- Area accessed through the Brandeis-Bardin campus at ADU Simi Valley.
- \* Golden eagle nest that was active earlier this season is nearby.
- Area supports suitable habitat for California special concern species (Coast horned Lizard, Coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 01 October 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011

**BIOLOGICAL RESOURCE MONITORING FORM**  
**ENVICOM CORPORATION**

Date: 30 September 2011

Biologist: Jack Stone

**ACTIVITIES MONITORED**

Site Area	Survey Station	Time	Activities Monitored	Equipment Used
NBZ-E	P1E	0720-1000 1050-1320	VC	chipper, skid steer w/ forks, chain saws, weed whackers

\* 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 Station	Observed Resources Encountered	AMMs Implemented	Residual Impacts
P1E	Nesting bird habitat Protected trees	VC-L Ventura Co. Trim Guidelines	None Trees trimmed
	Coast horned lizard occupied habitat	BIOL. MONITOR	None

**NOTES AND RECOMMENDATIONS:**

- Area access is through The Brandeis - Bardin Campus at ADU Simi Valley.
- \* Golden eagles observed twice today in vicinity of nest that was active earlier this season.
- Area supports suitable habitat for California special concern species (Coast horned lizard; coast patch-nosed snake, San Diego desert woodrat).

Biologist Signature: Jack Stone

Date: 01 October 2011

HGL Field Supervisor Signature: [Signature]

Date: 14 Oct. 2011