

Highlights

- Environmental compliance management
- Special status species surveys and habitat assessments
- Nesting bird surveying, monitoring, and management
- Construction monitoring
- Ambient noise sampling and monitoring
- Sensitive amphibian, reptile handling and research
- Habitat restoration and management
- 40-Hour HAZWOPER trained

U.S. Fish and Wildlife Service Recovery Permit No. TE-06145B-0

Presence/Absence Survey:

- Quino Checkerspot Butterfly
- Coastal California Gnatcatcher
- Western Yellow-billed Cuckoo (application pending)

Species Experience

- Arroyo toad (USFWS Approved Handler)
- Desert tortoise (Approved Monitor-Project Based)
- Flat-tailed horned lizard (Authorized Handler)
- Timber rattlesnake (Approved Monitor, Handler)
- California Department of Fish & Wildlife Scientific Collecting Permit (SC-11123, renewal pending)

Education

Bachelor of Arts, Claremont McKenna College,
Claremont, CA: Organismal Biology, 2008

Ms. Hill has over 8 years of experience working as a field biologist that include compliance management, surveying, avian and herpetofauna ecology, monitoring, and project management. Her biological qualifications include conducting sensitive species habitat assessments, nesting bird surveying and monitoring, extensive experience processing and handling amphibians, handling venomous snakes, and habitat restoration.

She is a natural leader, detailed oriented, and is very adept at coordinating people in the field and office. She has worked with clients such as Southern California Edison, San Diego Gas & Electric, SoCalGas, Kinder Morgan, and Burlington Northern Santa Fe Railroad conducting sensitive species biological surveys, managing natural resource compliance, writing biological/environmental documents, and construction monitoring.

Project Experience

San Diego Gas & Electric (SDG&E), TL-637 Wood to Steel Project, Ramona, CA (2012-2015) Worked as the Lead Environmental Inspector for a 160 pole, approximately 14-mile long 69 kV transmission line. She ensured the Mitigation Monitoring and Reporting Program (MMCRP) and requirements as dictated by the Initial Study/Mitigated Negative Declaration as directed by the California Public Utilities Commission, were implemented by both construction and environmental contractors. As the LEI, Ms. Hill coordinated with the SDG&E Contractor Administrators, construction contractor leads, SDG&E Environmental Specialists, SDG&E Compliance Manager, and managed the field environmental resource monitors in order to ensure the successful implementation of all compliance measures. The applicable environmental resources included biological, cultural, aquatic, paleontological, and storm water pollution prevention. Other compliance measures included within Ms. Hill's purview were the project specific fire plan, traffic control plan, helicopter lift plan, SDG&E Natural Community Conservation Plan as well as specific measures that pertained to hazardous materials, aesthetics, and noise. Ms. Hill developed a database tracking system to ensure compliance with the Migratory Bird Treaty Act and published a daily schedule for all construction related personnel that supported maintaining compliance. In the event a non-compliance event occurred, Ms. Hill reported this occurrence directly to the CPUC and their compliance team. Other duties included managing the proposed Minor Project Refinements (MPR) with both construction and environmental teams, administering Environmental Awareness

Training, conducting noise monitoring of various project related activities in noise sensitive areas, and assisting in the production of the weekly CPUC Weekly Compliance Report.

Craig Realty/Taylor Morrison, Marblehead Residential and Commercial Development, San Clemente, CA (2015) Currently conducting focused California Gnatcatcher breeding season surveys and nest monitoring in support of commercial and residential development. The site consists of approximately 16 occupied territories and Ms. Hill ensures that no construction impacts occur to the nesting California Gnatcatchers by interfacing with construction personnel and the onsite biological monitors. She is responsible for writing the weekly California Gnatcatcher nesting bird report that is submitted to the applicable agencies.

SDG&E, Cleveland National Forest Wood-to-Steel C78/TL625 Hermes Copper Protocol/Vegetation Mapping, Alpine, CA (2015) As a CPUC approved surveyor, conducted County of San Diego protocol level surveys, host plant vegetation mapping, and suitable habitat mapping of approximately 200 acres along an existing alignment.

Southern Sierra Research Station, 2015 Yellow-billed Cuckoo Annual Survey, Weldon, CA (2015) Assisted in conducting annual protocol surveys, nest searching, nest monitoring, and mist-netting within and near the Kern River Preserve.

The Rilington Group, 30-Day Burrowing Owl Clearance Survey, Indio, CA (2015) Conducted a 30-Day Burrowing Owl clearance survey and general nesting bird survey in support of proposed grading activities.

Confidential Client, California Gnatcatcher Presence/Absence Survey, Poway, CA (2015) Conducted a protocol level CAGN survey in occupied habitat that will be used as future mitigation property.

Apex Contracting and Restoration, Santa Ysidora Restoration Project, Camp Pendleton, CA (2015) Conducted biological monitoring of restoration activities within arroyo toad habitat. Her duties included ensuring the integrity of the arroyo toad exclusionary fencing and that no arroyo toads were harmed during construction activities.

Caltrans Schuyler Heim Bridge Replacement, Port of Long Beach, CA (2015) Conducted avian nest surveying and monitoring, implementing passive nesting deterrents, and monitoring the dismantling activities of the old bridge.

SDG&E, Artesian Expansion PEA Project, Rancho Bernardo, CA (2015) Conducted protocol level California Gnatcatcher and Least Bell's Vireo presence/absence surveys in suitable habitat along the proposed alignment and prepared 45-Day Report. In addition, conducted noise sampling at various locations along the alignment near potentially noise sensitive areas.

SDG&E, Sunrise Operations & Maintenance Nesting Bird Surveys, San Diego County, CA (2015) Ms. Hill has conducted general and California Gnatcatcher pre-construction nesting bird surveys along various locations of the existing alignment in support of overhead, road, and helicopter activities.

So Cal Edison, Hazardous Tree Removal Project Arroyo Toad Surveys, Banning/Lake Arrowhead, CA (2015) Conducted diurnal and nocturnal presence/absence surveys within suitable habitat near San Bernardino National Forest in support of tree trimming along an existing SCE alignment.

Proctor Valley Quino Checkerspot Butterfly Surveys, Chula Vista, CA (2015) Conducted protocol level Quino checkerspot butterfly surveys and larval host/adult nectar source vegetation mapping within suitable habitat at a 249 acre site located near Otay Lakes. Larval host plant mapping for Hermes Copper butterfly was identified and mapped.

Camp Monsoor Quino Checkerspot Butterfly Surveys, Campo, CA (2015) Conducted protocol level Quino checkerspot butterfly surveys and larval host/adult nectar source vegetation mapping within suitable habitat near Campo.

Mill Creek Bridge Project, Mentone, CA (2015) Conducted protocol level California Gnatcatcher presence/absence surveys at a 4 acre site in occupied habitat.

Kinder Morgan, Mount Carmel Pipeline Repair, San Diego, CA (2015) Conducted a habitat assessment and focused sensitive species survey in support of an exposed pipeline washout repair.

Kinder Morgan, Miramar Tank Farm Restoration Monitoring, San Diego, CA (2013-2015) Conducted a quantitative monitoring visit of a recovering site that included conducting several point transects along the property. Non-native and native plants were identified and percentages were calculated in order to demonstrate the recovery progress.

Flat Rock Land Company, Otay Mesa Skeet and Trap Shooting Range Restoration Project, Chula Vista, CA (2013-2015) Managed and implemented the project specific City of Chula Vista approved Coastal Sage Scrub Restoration Plan. Ms. Hill coordinated with the subcontractors to conduct the necessary weeding and focused nesting bird surveys as needed. As per the restoration plan, Ms. Hill conducted qualitative vegetation assessments, wrote the first annual report, and made recommendations to the client in order to reach the success criteria in fulfillment of the restoration plan.

Southern California Gas Angeles National Forest Restoration Project, Castaic Lake, CA (2012-2015) Conducted qualitative plant assessments of seven recovering sites that were disturbed during pipeline repair and relocation activities in Angeles National Forest. Non-native and native plants were identified and percent cover of each was estimated in order to determine site restoration goals. Specific restoration measures were recommended to protect the sites and increase the likelihood of meeting success criteria on time.

Orange Grove Energy, Parry's tetracoccus Restoration Monitoring, Pala, CA (2013-2015) Conducted annual qualitative surveys for a restoration plot for Parry's tetracoccus and wrote the associated annual memo as per the requirements of the California Energy Commission (CEC). Specific plant husbandry recommendations were made to the contractor in order to reach restoration goals in a timely manner.

Institute for Wildlife Studies, San Clemente Island Sage Sparrow Annual Baseline Survey- San Clemente Island, CA (2013) Participated in a two-day annual baseline survey to determine the population of the federally threatened San Clemente Island Sage Sparrow. Several individuals were identified and their locations logged with a GPS unit in boxthorn maritime scrub habitat.

SDG&E Sycamore to Penasquitos Proponents Environmental Assessment-Acoustics, San Diego, CA (2014) Conducted noise sampling along several in support of a noise study at various locations along the proposed transmission line.

Burlington Northern Santa Fe Railroad Habitat Mitigation Monitoring Project, Needles, CA (2013) Directed and monitored a restoration crew when planting young creosote plants in two recovering sites in the Mojave Desert. The recovering plots were formerly used as staging areas during bridge replacement activities in 2008. Duties included assessing the survivorship of the existing plants, determining the number of plants needed to achieve the five-year goal, and directing plant placement.

Orange Grove Energy, Monthly Power Plant Inspections, Pala, CA (2013-2014) Conducted monthly inspections of an active power plant that encompassed the following areas: spill prevention, control, and countermeasure plan (SPCC), landscaping and erosion control, fire plan, hazardous materials, signage, irrigation management, and storm water. Other duties included conducting habitat assessments, nesting bird surveys, and nest monitoring.

XCEL Energy, Pima Pineapple Cactus Rare Plant Survey, Loving, NM (2013) Conducted focused Pima Pineapple Cactus rare plant mapping of this federally endangered plant along a proposed transmission line in occupied habitat for five miles.

Burlington Northern Santa Fe Railroad 2013 Bridge Replacements, Essex, CA (2013) Monitored for the federally and state threatened desert tortoise during bridge replacements within the Mojave Desert. Duties included supervising the crew to minimize their impacts, providing tailgate training, enforcing the mitigation measures per the CDFW approved 1602 Streambed Alteration Agreement, and monitoring for sensitive species entering the jobsite.

Baker-Hughes Drilling Fluids, Bateman Canyon and Scruffy Mine Greater Sage-Grouse Pre-construction lek surveys- Greater Battle Mountain Area, NV (2013) Ms. Hill conducted lek surveys for two future mining properties in northern Nevada area. Three historical lek locations were surveyed and one new lek was found with one displaying male. In addition, potential bat roosting and foraging sites were assessed for future bat recording device placement.

Gerlicher Solar, 38 Acre Proposed Solar Panel Project, Rio Rico, AZ (2013) Conducted a habitat assessment for a proposed solar panel project in southern Arizona. A nesting bird survey was performed and potential nesting bird species were identified. A record search of sensitive species was conducted prior to the field visit and the survey was completed that focused on the potential for the sensitive species to occur.

So Cal Gas, Playa Del Rey Pipe Truss Support System Project, Playa Del Rey, CA (2013) Conducted a pre-construction nesting bird survey for proposed drilling within the active natural gas plant. Active bird nests were located and recommendations were made to the client in order to maintain compliance with the Migratory Bird Treaty Act and their project specific mitigation measures.

Southern California Edison, Valley South Subtransmission Project, Murrieta, CA (2013) Conducted habitat assessments along a proposed transmission line for the federally endangered Quino Checkerspot Butterfly and assisted in the subsequent protocol level surveys.

Flat Rock Land Company Otay Mesa Skeet and Trap Shooting Range Remediation Project, Chula Vista, CA (2012-2013) Monitored construction activities to protect sensitive and non-sensitive species during grading, vacuuming debris, and hydroseeding activities. Project area occurred in California Gnatcatcher habitat where individuals were frequently present. Other duties included mitigation measure compliance and writing the final biological post-construction report.

SDG&E Sunrise Powerlink Project, Scripps Ranch to El Centro, CA (2010-2012) Monitored active bird nests, managed avian biologists, and enforced nest specific mitigation measures for bird nests within a section of project. Performed preconstruction nesting bird surveys at proposed structure locations. Surveyed for listed species, raptors and any other nesting birds up to 500 feet away from work areas, and completed daily reports. Conducted Hermes Copper Butterfly surveys and host plant replant monitoring. Monitored construction crews in occupied Arroyo Toad habitat with exclusion fencing, conducted simulated rain events, and clearance surveys. Managed internal consultant team.

Orange and Rockland Utilities Transmission Line Refurbishment, Suffern, NY (2010) Monitored construction for the NY state endangered Timber Rattlesnake. Duties included tracking individuals via radio telemetry, conducting clearance sweeps, and relocations. Conducted nesting bird surveys around the construction area, set up nest buffers, and monitored the active nests.

Southern California Edison Bob Hope/Ramon Dr 12 kV Relocation Project, Palm Springs, CA (2010) Monitored for sensitive species that included: round-tailed ground squirrel, Palm Springs pocket mouse, Burrowing Owl, Coachella Valley fringe-toed lizard, Flat-Tailed Horned Lizard, and Coachella Valley milk-vetch. Duties included presenting a training PowerPoint presentation, leading the daily tailgate for the crew, flagging sensitive plant species, relocating sensitive species, establishing exclusion fencing, and setting up pitfall traps. Sensitive species that were relocated or flagged included Coachella Valley fringe-toed lizard and Coachella Valley milk-vetch.

Southern California Edison On-Call Deteriorated Pole Replacement Surveys and Monitoring, Los Angeles, Riverside, and Tulare Counties, CA (2010) Conducted habitat assessment surveys on an as-needed basis for deteriorated wood poles scheduled for replacement by SCE. Surveys included identification of vegetation types and determination of the presence or potential occurrence of sensitive biological resources within the project area, such as listed species or nesting birds. Occasionally sites include poles located on agency lands (Bureau of Land Management [BLM] or U.S. Forest Service [USFS]), requiring additional documentation such as Biological Assessments or Biological Evaluations. Ms. Hill has monitored for Desert Tortoise during pole replacements within the greater Barstow, CA area.

Desert Tortoise Monitor, Kinder Morgan Pipeline Refurbishment, Barstow, CA (2010) Monitored for desert tortoise during natural gas pipeline repairs. Maintained compliance with outlined environmental procedures, training, minimizing impacts to the environment, and prohibiting sensitive species from entering the jobsite.

Burlington Northern Santa Fe Railroad 2010 Bridge Replacements, Barstow, CA (2010) Monitored for desert tortoise and Mojave fringe-toed lizard at two bridge replacement locations within the Mojave Desert.

SDG&E to Steel TL 681 Post-Construction Project, San Diego County, CA (2010) Ensured crews complied with SDG&E's Natural Community Conservation Plan (NCCP) and other applicable environmental mitigation measures while removing the original wood poles.

SDG&E Wood to Steel Pole Post-Construction Projects, Tie Line 634 San Diego County, CA (2010) Prepared the post-construction report for this SDG&E Wood to Steel Pole Replacement Project, which entailed replacing approximately 95 wood poles with direct-embedded steel poles along existing 69 kV electric transmission line.

SDG&E NCCP Environmental Support, San Diego, CA (2009) Worked as in house biological support to the Natural Resources Group to aid in the compliance of SDG&E's Natural Community Conservation Plan (NCCP). This full-time contract involved determining whether a proposed construction activity required a biological review based upon the following: probability of bird nests in proximity of proposed work, GIS software, in-house environmental requests, and designed sketches. Other duties included preparing and transmitting pre-activity survey reports for proposed activities to the various contracted biological and cultural consultants, managing project data, assigning project workloads to the in-house SDG&E biologists, and managing high-priority projects.

Smithsonian Tropical Research Institute, Warkentin Lab Amphibian Research - Gamboa, Panama (Research Assistant, 2008) Aided in the implementation of a large scale experiment on predator-prey plasticity of *Agalychnis callidryas* tadpoles when exposed to direct and chemical cues of several aquatic predators. Conducted research on male calling behavior and reproduction success by surveying for *A. callidryas* nightly, recording calls and collecting subsequent fertilized eggs. She participated in mark-recapture of *A. callidryas* by surgically inserting tags into each captured frog, collecting egg masses, and handling eggs, tadpoles, metamorphs, froglets, and adult anurans.

Trainings

- *Yellow-billed Cuckoo Workshop*, Lake Havasu, AZ/ Weldon, CA (2011, 2015)
- *Wetland Delineation Training*, Wetland Training Institute, San Diego, CA (2015)
- *HAZWOPER 40 hour training*, Long Beach, CA (2015)
- *California Environmental Quality Act (CEQA) Class*, University of California San Diego Extension (2013)
- *The Anostraca and Notostraca of California Workshop*, San Diego, CA (2013)
- *San Diego County Sensitive Butterfly Workshop*, San Diego, CA (2012)
- *Western pond turtle workshop*, Watsonville, CA (2012)
- *Flat-tailed horned lizard monitoring training*, El Centro, CA (2012)
- *Bird Banding Workshop (Beginning and Advanced)*, Irvine, CA (2012)
- *Southwestern Research Station Herpetology Field Course*, Portal AZ (2011)
- *Willow Flycatcher Workshop*, Kern River, CA (2011)
- *Surveying, Monitoring, and Handling Desert Tortoise Workshop*, Ridgecrest, CA (2009)
- *CEQA Workshop*, Santa Ana, CA (2009)
- *University of California Extension Workshops: Introduction to Plants, Ecology of Chaparral, Snakes and Lizards of the Mojave Desert*, Southern California (2010)