

Appendix G
Biological Resources Information

Appendix G1
CNDDDB Database

State of California
 Department of Fish and Game
 California Natural Diversity Database
 March 2009 Version

Common Name/Scientific Name	Element Code	Federal Status	State Status	G Rank ¹	S Rank ²	CNPS
Sensitive Habitats						
Valley Sink Scrub	CTT36210CA	None	None	G1	S1.1	
Great Valley Mesquite Scrub	CTT63420CA	None	None	G1	S1.1	
Plants						
slough thistle <i>Cirsium crassicaule</i>	PDAST2E0U0	None	None	G2	S2.2	1B.1
oil neststraw <i>Stylocline citroleum</i>	PDAST8Y070	None	None	G1	S1.1	1B.1
Lost Hills crownscale <i>Atriplex vallicola</i>	PDCHE04250	None	None	G1	S1.1	1B.2
subtle orache <i>Atriplex subtilis</i>	PDCHE042T0	None	None	G2	S2.2	1B.2
Horn's milk-vetch <i>Astragalus hornii</i> var. <i>hornii</i>	PDFAB0F421	None	None	G4G5T2T3	S2S3.1	1B.1
Kern mallow <i>Eremalche kernensis</i>	PDMAL0C031	Endangered	None	G3?T1Q	S1.1	1B.1
Tejon poppy <i>Eschscholzia lemmonii</i> ssp. <i>kernensis</i>	PDPAP0A071	None	None	G5T1	S1.1?	1B.1
Hoover's eriastrum <i>Eriastrum hooveri</i>	PDPLM03070	Delisted	None	G3	S3.2	4.2
recurved larkspur <i>Delphinium recurvatum</i>	PDRAN0B1J0	None	None	G2	S2.2	1B.2
Reptiles						
southwestern pond turtle <i>Actinemys marmorata pallida</i>	ARAAD02032	None	None	G3G4T2T3Q	S2	
blunt-nosed leopard lizard <i>Gambelia sila</i>	ARACF07010	Endangered	Endangered	G1	S1	
giant garter snake <i>Thamnophis gigas</i>	ARADB36150	Threatened	Threatened	G2G3	S2S3	
Birds						
prairie falcon <i>Falco mexicanus</i>	ABNKD06090	None	None	G5	S3	
mountain plover <i>Charadrius montanus</i>	ABNNB03100	None	None	G2	S2?	
burrowing owl <i>Athene cunicularia</i>	ABNSB10010	None	None	G4	S2	
Le Conte's thrasher <i>Toxostoma lecontei</i>	ABPBK06100	None	None	G3	S3	
tricolored blackbird <i>Agelaius tricolor</i>	ABPBXB0020	None	None	G2G3	S2	
Yellow-headed blackbird <i>Xanthocephalus xanthocephalus</i>	ABPBXB3010	None	None	G5	S3S4	

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Mammals

Buena Vista Lake shrew <i>Sorex ornatus relictus</i>	AMABA01102	Endangered	None	G5T1	S1
Nelson's antelope squirrel <i>Ammospermophilus nelsoni</i>	AMAFB04040	None	Threatened	G2	S2
San Joaquin pocket mouse <i>Perognathus inornatus inornatus</i>	AMAFD01061	None	None	G4T2T3	S2S3
giant kangaroo rat <i>Dipodomys ingens</i>	AMAFD03080	Endangered	Endangered	G2	S2
Tipton kangaroo rat <i>Dipodomys nitratoides nitratoides</i>	AMAFD03152	Endangered	Endangered	G3T1	S1
short-nosed kangaroo rat <i>Dipodomys nitratoides brevinasus</i>	AMAFD03153	None	None	G3T1T2	S1S2
San Joaquin kit fox <i>Vulpes macrotis mutica</i>	AMAJA03041	Endangered	Threatened	G4T2T3	S2S3
American badger <i>Taxidea taxus</i>	AMAJF04010	None	None	G5	S4

1: Global Ranking

G1=Critically Imperiled—At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors.

G2=Imperiled—At high risk of extinction or elimination due to very restricted range, very few populations, steep declines, or other factors.

G3=Vulnerable—At moderate risk of extinction or elimination due to a restricted range, relatively few populations, recent and widespread declines, or other factors.

G4=Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

G5=Secure—Common; widespread and abundant.

T#=Intraspecific Taxon (trinomial)—The status of infraspecific taxa (subspecies or varieties) are indicated by a “T-rank” following the species' global rank. Rules for assigning T-ranks follow the same principles outlined above. For example, the global rank of a critically imperiled subspecies of an otherwise widespread and common species would be G5T1. A T subrank cannot imply the subspecies or variety is more abundant than the species. For example, a G1T2 subrank should not occur. A vertebrate animal population, (e.g., listed under the U.S. Endangered Species Act or assigned candidate status) may be tracked as an infraspecific taxon and given a T-rank; in such cases a Q is used after the T-rank to denote the taxon's informal taxonomic status.

2: Subnational Ranking

S1=Critically Imperiled— Critically imperiled in the jurisdiction because of extreme rarity or because of some factor(s) such as very steep declines making it especially vulnerable to extirpation from the jurisdiction.

S2=Imperiled— Imperiled in the jurisdiction because of rarity due to very restricted range, very few populations, steep declines, or other factors making it very vulnerable to extirpation from jurisdiction.

S3=Vulnerable— Vulnerable in the jurisdiction due to a restricted range, relatively few populations, recent and widespread declines, or other factors making it vulnerable to extirpation..

S4=Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors.

S5=Secure— Common, widespread, and abundant in the jurisdiction.

CNPS	1	Seriously endangered in California
	1B	Plants that are rare or endangered in California and elsewhere
	2	Fairly endangered in California
	3	Not very endangered in California
	4	Plants that have limited distribution in California

Appendix G2
Résumés



David A. Kisner

Project Biologist, Santa Maria Biology Group Leader

Overview

Mr. Kisner is a wildlife biologist with extensive experience working with threatened and endangered birds within southern California coastal and riparian areas. David completed his Master's in Ecology through San Diego State University looking at the impact of the non-native Giant Reed (*Arundo donax*) on the riparian bird community. While in San Diego, David worked with the U.S. Geologic Survey for four years conducting presence/absence and nest monitoring surveys for Least Bell's Vireos and Southwestern Willow Flycatchers. David has a broad background in biology and has also worked for Santa Barbara County Planning and Development as a Biologist and Planner. David is currently managing the biology portion of environmental documents associated with power development projects in Southern California and is involved with a large-scale soil remediation and restoration projects.

Areas of Expertise

- Birds of the Western United States
- Site Assessment and Monitoring of Endangered Birds of California
- Habitat Assessment
- Wildlife Survey
- Botanical Assessment
- Permit Compliance
- Construction Monitoring

Years of Experience

With URS: 4 Years

With Other Firms: 12 Years

Education

MS/Ecology/2004/San Diego State University

BA/Biology, Evolution, & Ecology/1994/University of California, Santa Barbara

Specialized Training

- OSHA 40-Hour HAZWOPER
- OSHA 8-Hour Supervisor HAZWOPER
- Loss Prevention System
- Smith System Driver

Project Specific Experience

Project Management

- Biology Task Lead for Hydrogen Energy California, Kern County – Managed and authored section for environmental document assessing biological impacts associated with 315-acre power plant and associated linears. March 2008 to present.
- Biology Task Lead for General Energy Solar Project, Kern County – Managed and authored section for environmental document assessing biological impacts associated with 280-acre solar power project and associated linears. March 2009 to present.
- Biology Task Lead for Sentinel Energy Project, Riverside County – Managed and co-authored section for environmental document assessing biological impacts associated with 37-acre power plant and associated linears. January 2007 to present.
- Biology Task Lead for San Gabriel Generating Station, San Bernardino County – Managed and co-authored section for environmental document assessing biological impacts associated with 17-acre power plant and associated linears. February 2005 to present.
- Wildlife Task Manager for the Guadalupe Dunes Restoration Project – Organized, coordinated, and oversaw wildlife monitoring and permit compliance of 2,700-acre soil remediation site. Communicated with On-site Environmental Coordinator regarding restoration, monitoring, coordinate operations with wildlife monitors, and reporting of sensitive species found on site. Oversaw monitoring efforts for Western Snowy Plovers, California Red-legged Frogs, small mammal trapping and numerous sensitive species. February 2006 to December 2008.



David A. Kisner

- Delhi Sands Restoration for SCE – Organized and oversaw restoration of a half-acre site for the endangered Delhi Sands Flower-loving Fly. April 2006 to present.
- Designated Biologist for SCE Mountainview Power Project – Organized and oversaw biological monitoring of 18 mile gas line and power plant construction site. Ensured construction was conducted according to permit conditions and worked with client and regulatory agencies to address biological concerns. April 2004 to April 2006.
- West Figuroa Bird Usage Study for the City of Santa Barbara – Conduct winter, spring, and breeding bird surveys to determine species usage and habitat values prior to proposed creek enhancement and native plant restoration efforts. January 2006 to July 2006.
- Project Manager and Lead Biologist for CalTrans SR 118/23 Widening Project – surveyed 5 miles of riparian habitat for Least Bell's Vireo and Willow Flycatchers. Managed project, contract biologist, and report production. 2004.

Sensitive Species Survey Experience

Least Bell's Vireo (*Vireo bellii pusillus*)

Over 350 positive contact hours

- Santa Clara and Ventura Rivers, Ventura County - Conducted presence/absence surveys for vireos and mapped territories. 2004 and 2005.
- San Timeteo River, Riverside County – Conducted presence/absence surveys for vireos and mapped territories. 2005.
- San Luis Rey River, San Diego County – Conducted area searches for Least Bell's Vireos. Monitored nest for fledging success, predation, and parasitism by Brown-headed Cowbirds. Banded nestlings with color bands. 2000 to 2003.
- Santa Barbara, Ventura, and Los Angeles Counties - Conducted focused surveys for Least Bell's Vireos. 1998 and 1999.

Southwestern Willow Flycatcher (*Empidonax traillii extimus*)

Over 175 positive contact hours

- San Timeteo River – Riverside County - Conducted presence/absence surveys for vireos and mapped territories. 2005.
- Camp Pendleton, San Diego County – conducted area censuses for Willow Flycatchers and followed individuals and pairs through the breeding season. 2000 and 2001.
- Santa Barbara, Ventura, and Los Angeles Counties - conducted focused surveys for Willow Flycatchers. 1999.
- Vandenberg Air Force Base, Santa Barbara County – conducted surveys for Willow Flycatchers and monitored nest for success, predation, and parasitism by Brown-headed Cowbirds. 1998.

David A. Kisner

Belding's Savannah Sparrow (*Passerculus sandwichensis beldingi*)

Over 50 positive contact hours

- Tijuana River Estuary, San Diego – conducted passive surveys in the Tijuana River Valley in conjunction with sound study. 2002.
- Goleta Slough, Santa Barbara – conducted passive surveys in and around Goleta Slough to determine habitat usage. 1998 and 1999.
- Goleta Slough, Santa Barbara – assessed population dynamics and habitat selection of the Belding's Savannah Sparrows. 1993 and 1994.

Western Snowy Plover (*Charadrius alexandrinus nivosus*)

Over 130 positive contact hours

- Guadalupe Dunes, San Luis Obispo County – assisted with nest searching and monitoring. July 2006.
- Coal Oil Point, Santa Barbara County –monitored Snowy Plovers, educated the public, and enforced beach use regulations. Recorded human, dogs, and other wildlife's affects on the plovers. November 2005 to February 2006.
- Guadalupe UNOCAL Oil Field Response Monitoring, Santa Barbara and San Luis Obispo Counties – searched for and monitored Snowy Plover nests. 1994 and 1995.
- McGrath Beach Natural Resource Damage Assessment, Ventura County – searched for and monitored Snowy Plover nests. Recorded the number, behavior, and localities of wintering Snowy Plovers. 1994.

California Least Tern (*Sterna antillarum browni*)

Over 30 positive contact hours

- Mission Bay Bird Usage Study, San Diego County – passive observation of Least Terns foraging and breeding within the study area. 2000 to 2002.
- McGrath Beach Natural Resource Damage Assessment, Ventura County – searched for and monitored Least Tern nests. Surveyed the beach, river mouth, and coastal dune pond for birds and signs of habitat damage. 1994.

California Red-Legged Frog (*Rana aurora draytonii*)

Over 20 positive contact hours

- Guadalupe Restoration Project, San Luis Obispo County – assisted with quarterly eye-shine surveys, egg mass surveys, tadpole sampling, and day-time work zone clearances; adults, yearlings, tadpoles, and egg masses seen. March 2006 to present.
- *Rana* Capture and PIT Tag Training from Dr. Galen Rathbun - training involved approximately 30 minutes of lecture followed by over 3 hours of field work, where participants practiced finding and capturing bullfrogs by hand, taking basic metrics (sex, age-class, total length, weight), toe-clipping, and PIT tagging. October 2006.

David A. Kisner

- Ventura River, Ventura County – assisted with USFWS protocol CRLF Surveys along the Ventura River. Captured numerous Bullfrogs located with the main Ventura River channel. 2004.
- Gaviota State Beach, Santa Barbara County – day time habitat assessment; adults and egg mass seen. 2004.

Desert Tortoise (*Gopherus agassizii*)

2 positive contact hours

- Johnson Valley Energy Project – Conducted protocol surveys on portions of 8,000-acre project site looking for desert tortoise, sign, tracks, scat, and burrows. Collectively, crew found five individuals; each was passively measured and burrows were assessed.

General Bird Surveys, Wildlife Surveys, and Habitat Assessment

- Santa Barbara Airport Bird Usage Studies – Conducted regimented observations of bird usage of control and experimental tidal basins to determine potential strike hazards, assessed breeding bird habitat and directed vegetation removal to minimize nesting within certain areas, located and monitored nests within study areas in order to ensure there were no “take” under the Migratory Bird Treaty Act, and conducted Belding’s Savannah Sparrow and general bird observations in and around construction to ensure there were no impacts. 2004 to present.
- Lake Casitas Waterfowl and Bird Usage Study – conducted year round surveys of Lake Casitas for ducks, grebes, and other “aquatic” bird species. Surveys required determining the number, species, and location of all individuals. Fall 2004 to Winter 2005.
- Oxnard Plain Groundwater Recharge Project EIS/EIR – conducted surveys for Least Bell’s Vireo and general wildlife within the project site. Compiled historic data, recent survey results, and third party observations and assessed potential impacts to the biologic resources by proposed project activities. Made suggestions for avoidance and mitigation measure to negate and/or minimize impacts. 2005.
- National Forest Avian Point Count Assessment, Santa Barbara, Ventura, Los Angeles, and San Diego Counties – conducted point counts within four Southern California National Forests; coordinated field crew and access logistics. 2003.
- Camp Pendleton MAPS sites, San Diego County – captured, measured, and banded riparian birds to determine productivity and survivorship. Supervised field crew in 2003. 2000 to 2003.
- Point Loma Breeding Bird Assessment, San Diego County – conducted point counts to determine habitat usage and breeding bird composition. 2000 to 2003.

David A. Kisner

- Upper Tijuana Estuary Bird Usage Study, San Diego County – conducted seasonal surveys of U.S. Navy lands within the Tijuana River Valley to determine species composition and abundance. 2002.
- Mission Bay Bird Usage Study, San Diego County – conducted monthly surveys of the basins and wetlands to determine bird species composition and abundance. 2000 to 2002.
- Santa Barbara Municipal Airport Wetland Mitigation Feasibility Study, Santa Barbara – conducted surveys of bird usage of wetland basins within Goleta Slough to predict possible outcome of restoration efforts on bird-plane interactions. 1998 to 1999.
- Summerland Greenwell Park, Santa Barbara County – developed restoration plan using native plants to restore and enhance riparian and coastal scrub communities for new wildlife preserve. 1998.
- Golden Gate National Recreation Area Brown-headed Cowbird Census, Marin County – censused 5 locations using point count survey method for birds and searched riparian areas for nests. Monitored nests for parasitism (by Brown-head Cowbirds), predation, and fledging success. Trained volunteers in nest search methodology and directed their search efforts, and resolved logistical problems. 1996.
- San Miguel Island Small Mammal Trapping – used Sherman traps to capture deer mice. Mice were tagged, blood was drawn for Haunta virus testing, and morphometric data was collected before releasing the mice were released.

Botanical Experience

Field Experience:

- Johnson Valley Energy Project – conducted botanical surveys on portions of 8,000-acre project site looking for rare and sensitive plant species.
- Guadalupe Restoration Project – conduct active and passive restoration assessments and assist with population censuses for State Threatened surf thistle and beach spectaclepod, and Federally Endangered and State Threatened La Graciosa thistle. Oversee construction activity to ensure minimization of impact and avoidance of sensitive species. February 2006 to present.
- Santa Clara River Habitat Mapping - conducted several rapid assessments and mapped vegetation according to the Sawyer and Keeler-Wolf classification method along the Santa Clara River from the estuary to Newhall Ranch, including the Piru Creek tributary in Fall 2005.

David A. Kisner

- Mountainview Power Project – Conducted regular surveys within and near work zones to ensure no sensitive plants were present. Restored project area after disturbance; collected quantitative data on restoration success. April 2004 to April 2006.
- Santa Barbara Airport / Goleta Slough quantitative restoration monitoring –Assisted with quantitative data collection on restoration transects through out the salt marsh and transition habitats. Spring 2004 and 2005.
- L.A. Metropolitan Water District HCP site assessment. March 2004 and 2005. Surveyed large parcels within the northern Mojave Desert for rare and sensitive plant species.
- USGS – 2000 to 2004 – conducted habitat/vegetation assessments of sensitive species breeding areas/territory. Conducted “stacked cube” qualitative vegetation assessment of restoration site.
- Santa Barbara County Planning and Development – Conducted baseline surveys of proposed project sites to determine habitat function and value. November 1996 to August 1999.
- Northeastern Washington Timber Management Project – Conducted line transects through pine woodlands and mountain riparian zones in conjunction to avian survey routes. 1995.

Course Work:

- CNPS Vegetation Mapping and Classification Workshop, August 2005. Participated in the rapid habitat assessments and mapped vegetation according to the Sawyer and Keeler-Wolf classification method.
- Flora of California - UC Santa Barbara, 1993 Quarter long course with laboratory and field trips covering the plant families of California taught by Dr. Bob Haller. Focus of course involved keying plants to species using A Flora of California by Philip Munz (1974).
- Flora of California - Santa Barbara City College, 1998. Quarter long course with laboratory covering the plant families of California taught by Mr. Al Flinck. Focus of course was to key plants to species using The Jepson Manual, Higher Plants of California (1993).

Environmental Permitting and Regulations

- Contract Biologist/Planner, Santa Barbara County Planning and Development – processed development projects in Santa Barbara County under applicable local, state, and federal environmental and planning regulations and laws. Assessed impacts to Biologic Resources and reviewed environmental documents. March 1998 to August 1999.



David A. Kisner

- Permit Compliance, Santa Barbara County Planning and Development – ensured compliance with Conditions of Approval connected to discretionary projects. Assessed success of mitigation measures, environmental protection plans, and restoration efforts. Responded to public inquiries, complaints, and concerns. August 1997 to January 1998.
- Biologist/Planner, Santa Barbara County Planning and Development – processed development projects in Santa Barbara County under applicable local, state, and federal environmental and planning regulations and laws. Assessed impacts to Biologic Resources and reviewed environmental documents. November 1996 to August 1997.

Specialized Training

- OSHA 40-Hour HAZWOPER
December 2004
HAZWOPER annual refresher
February 2008
- OSHA 8-Hour Supervisor HAZWOPER Training
April 2005
- Shell “Yellowbook” Safety Training
August 2008
- Smith Systems Driver Training
September, 2006
- *Rana* Capture and PIT Tag Training with Dr. Rathbun
October 2006
- Loss Prevention System
March 2006
- Red Cross First Aide, CPR, & AED
July 2006
- CNPS Vegetation Mapping and Classification Workshop
August 2005

Contact Information

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Robin Murray

Staff Biologist

Overview

Ms. Murray is a biologist with three years experience with rare plant surveys within California. Her work in Northern California involved conducting rare plant surveys, organizing field crews, and training crews in the identification and habitat requirements for target species. Ms. Murray has extensive experience hiking and navigating in rough terrain and in the operation off-highway vehicles. She also has experience in the creation and care of herbarium collections.

Areas of Expertise

Vegetation surveys
Plant identification
Habitat Assessment for sensitive plant species
Navigation in difficult terrain

Years of Experience

With URS: <1 Year
With Other Firms: 2 Years

Education

BS/Botany/Environmental
Biology/2006/Humboldt State
University

Specialized Training

OSHA 40-Hour HAZWOPER
Wetland Delineation

Project-Specific Experience

Restoration Experience

- Delhi Sands Restoration for SCE, San Bernardino, CA – Assisted with restoration efforts on a half-acre site for the endangered Delhi Sands Flower-loving Fly (*Rhaphiomidas terminatus abdominalis*). March 2008 to present.

Vegetation Survey Experience

- Johnson Valley Energy Project – Conducted over 250 hours of botanical surveys on portions of 8,000-acre project site looking for rare and sensitive plant species. March to June 2008.
- Timber Harvest Plan Surveys, Korb and Scotia, CA– Coordinated three to four person crews for vegetation surveys including field training and plant identification training. Surveyed timber harvest plans for rare and sensitive plant species, monitored known populations of rare plants, assessed habitat suitability for rare plants, recorded and interpreted data, navigated and hiked in varying terrain and weather conditions, drove ATVs as well as 4x4 trucks. May to August 2006 and March to September 2007.

Sensitive Species Experience

Botanical Experience

- Conducted over 250 hours of surveying for rare and/or listed desert plant species in Johnson Valley, CA.
- Identified and documented a large population (over 1,500 individuals) of desert polygala (*Polygala acanthoclada*).
- Identified and documented first two known populations of giant fawn lily (*Erythronium oregonum*) within California.
- Surveyed over 50 miles of logging roads for Howell's montia (*Montia howellii*) and identified over 50 populations.
- Identified and documented over 100 populations of running pine (*Lycopodium clavatum*).
- Identified and documented over 25 populations of robust false lupine (*Thermopsis robusta*).

- Surveyed for and identified populations of Bald Mountain milk-vetch (*Astragalus umbricatus*), small groundcone (*Boschniakia hookeri*), flaccid sedge (*Carex leptalea*), Meadow sedge (*Carex praticola*), Oregon goldthread (*Coptis laciniata*), coastal fawn lily (*Erythronium revolutum*), Pacific gilia (*Gilia capitata* ssp. *pacifica*), indian pipe (*Monotropa uniflora*), Siskiyou checkerbloom (*Sidalcea malviflora* ssp. *patula*), and coast checkerbloom (*Sidalcea oregana* ssp. *eximia*).

Wildlife Experience

Blunt-nosed leopard lizard (*Gambelia sila*)

- Four positive identifications under supervision of a Level II surveyor. California Valley, CA – Surveyed for blunt-nosed leopard lizards using the CA Department of Fish and Game Protocol.

Desert tortoise (*Gopherus agassizii*)

- Four positive contact hours. Johnson Valley Energy Project – Conducted protocol surveys on portions of 8,000-acre project site looking for desert tortoise, sign, tracks, scat, and burrows. Collectively, crew found fifteen individuals; each was passively measured and burrows were assessed.

Specialized Training

- Wetland Delineation Training
August 2008
- OSHA 40-Hour HAZWOPER
June 2008
- Smith Systems Driver Training
August 2008
- Loss Prevention System
August 2008
- Certified ATV driver by the ATV Safety Institute,
license # 122849
- 2007/First Aid/CPR/AED

Chronology

3/08 - Present: URS Corporation, Staff Biologist, Santa Maria, CA

3/07 - 9/07: Green Diamond Resource Company, Botanical Crew Leader, Korbek, CA.

5/06 - 8/06: Pacific Lumber Company, Botanical Technician, Scotia, CA

6/05 - 8/05: Biological Sciences Department, Humboldt State University, Research Intern, Arcata, CA

6/03 - 8/03: Entomology Laboratory, Humboldt State University, Laboratory Assistant (Volunteer) Arcata, CA

5/02 -8/02: Joint Genome Institute- Lawrence Berkeley Laboratories, Laboratory Assistant and Microscope Technician, Walnut Creek, CA



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Cletis England

Biologist/Ecologist

Overview

Mr. England is an ecologist with experience working with a variety of native habitats along the Central California coast. Cletis' experience ranges from site assessments of industrial and commercial sites to restoring and enhancing native habitats and erosion control projects. He has over ten years of professional experience including botanical surveys and mapping, habitat assessment, habitat restoration design, implementation, and monitoring, wetland determinations, wildlife surveys, construction compliance and monitoring, and GIS mapping. Cletis' project experience has included working with federal, state, and local agencies to find solutions to project constraints that meet the goals of several parties with conflicting interests to facilitate the successful completion of projects. Cletis has developed and instituted monitoring protocols, developed restoration plans, and has monitored multiple development projects.

Areas of Expertise

- Birds of the Western United States
- Site Assessment and Monitoring of Endangered Birds of California
- Habitat Assessment
- Wildlife Survey
- Botanical Assessment
- Permit Compliance
- Construction Monitoring

Years of Experience

With URS: 0.75 Years

With Other Firms: 10 Years

Education

B.S./Ecology and Systematic Ecology/2000/Cal Poly, San Luis Obispo

A.S./Biology/1994/Cuesta Community College

Registration/Certification

2002/Adult CPR and First Aid/CA

2002/Wilderness First Aid/CA

2002/National Safety Council

Defensive Driver Training/CA

Project-Specific Experience

Land Rehabilitation Coordinator, Fort Hunter Liggett, CA July 2006 – March 2008

Colorado State University, Fort Collins, Colorado

- Identified, evaluated and coordinated rehabilitation sites and erosion control projects
- Coordinated and oversaw implementation of long term revegetation plans and seasonal crews
- Researched methods to improve efficacy of various restoration projects and resources
- Coordinated with Environmental Division and Range Control Trainers
- Coordinated purchases and outsourcing for materials and subcontractors
- Identified and monitored invasive species treatment areas and appropriate control methods
- Collected and utilized native materials to augment rehabilitation efforts

Field Biologist/Project Manager Nov. 2004 – June 2006

Sierra Delta Corporation

- Prepared Biological Assessments
- Prepared and coordinated environmental regulatory permits and consultations for projects
- Designed and prepared Habitat Mitigation / Restoration Plans
- Coordinated, managed, and monitored restoration projects
- Coordinated purchases and outsourcing for materials and subcontractors
- Conducted target surveys for rare and sensitive plants and animals



Field Biologist March 2003 – Nov. 2004

Althouse and Meade, Inc.

- Prepared Biological Assessments
- Served as environmental monitor for residential and commercial developments
- Conducted State and Federal protocol surveys / Special Status Species habitat assessments
- Developed G.I.S. habitat maps and site plans for environmental planning
- Conducted salmonid habitat assessment and coordinated restoration projects
- Generated preliminary wetland descriptions
- Prepared and tracked CDFG, USACE and RWQCB permits and agency consultations
- Implemented erosion control plans and operated a hydro-seeder

Fish Habitat Biologist August 2002 – Nov. 2002

Hoopa Valley Tribal Fisheries Department

- Evaluated and monitored Coho salmon and anadromous fish habitat
- Supervised, trained, and evaluated technicians for multiple projects
- Analyzed and interpreted field data and prepared final reports
- Handled and assessed wild and hatchery fish at traps and weirs
- Prepared proposals and grant applications for project funding
- Conducted site reviews and biological monitoring of timber harvest plan areas
- Monitored sediment load and channel morphology to assess habitat changes
- Provided technical support, G.I.S. map generation, and document layout
- Investigated and prioritized stream reaches and uplands for enhancement projects
- Participated in Interdisciplinary Team for E.I.A. of timber management areas

Fish and Wildlife Scientific Aid May 2000 – July 2002

California Department of Fish and Game

- Trained and supervised aids in project survey protocols for the High Mountain Lakes Project
- Trained seasonal aids in wilderness orienteering and plotting with GPS.
- Coordinated excursions into wilderness areas including equip. and supplies
- Researched and assisted in preparing land management plans for ecological reserves
- Assisted in budgeting expenses and equipment purchases
- Documented aquatic/terrestrial habitat and morphology of lakes and streams
- Tagged and herded fish, planted eggs and hatchery fish, and assisted in electrofishing streams



- Conducted land and vegetation surveys and created G.I.S. layers for habitat management
- Assisted in timberlands resource assessment
- Coordinated and implemented endangered species identification and monitoring
- Procured bids and contracts with private firms for state projects

Fish and Wildlife Technician April 1998 – Dec. 1999

Camp Roberts Hunting and Fishing Program

- Collected, analyzed, and documented data on wildlife species
- Summarized data and wrote annual reports
- Operated pest removal project and water quality monitoring project
- Surveyed and monitored endangered species by radio telemetry, trapping, spotlighting, and mist netting
- Coordinated with military police and Fish and Game wardens to enforce military regulations and applicable laws, and issued hunting permits

Other Technical Experience

California Red-legged Frog

- Attended N.R.C.S. red-legged frog workshop at Pierdras Blancas Lighthouse, San Simeon, CA instructed by Norman Scott (2003)
- Conducted protocol surveys for red-legged frogs at over 20 sites from Monterey, San Luis Obispo, and Santa Barbara Counties
- Positively identified and observed over 30 adult, over 50 sub-adult red-legged frogs, and over 20 larvae
- Conducted pre-activity surveys and pre-construction training sessions for projects in red-legged frog habitat

Other Rare and Sensitive Amphibians and Reptiles

- Supervised and trained 6 Scientific Aides in protocol surveys for Mountain yellow-legged frog and Yosemite toad while working on the High Mountain Lakes Project for the California Department of Fish and Game
- Conducted protocol surveys, identified and observed 9 adult and multiple sub-adult mountain yellow-legged frogs and larvae in the Emigrant Wilderness while working for the California Department of Fish and Game
- Conducted protocol surveys, identified, and observed 3 adult and multiple Yosemite toad larvae
- Identified and observed over 300 foothill yellow-legged frog adults, sub-adults, and larvae while working on the North Coast Watershed Assessment Program for the California Department of Fish and Game
- Identified and observed two adult arboreal salamanders during a Biological Assessment of Santa Margarita Ranch, San Luis Obispo County, California
- Identified and observed over 100 California newts on various Biological Assessments conducted in San Luis Obispo County



- Identified and observed over 100 larvae and 3 adult spadefoot toads by visual observation, and hundreds of adults by acoustic observation during field work and Biological Assessments in San Luis Obispo County
- Identified and observed 3 two-striped racers during field work in Monterey and San Luis Obispo Counties.

San Joaquin Kit Fox

- Identified and observed one-collared fox at Camp Roberts National Guard Facility and two foxes encountered during various field surveys and Biological Assessments Experience includes spotlight surveys, burrow evaluations, and radio telemetry (Camp Roberts National Guard Facility, 1997-1999)

Burrowing Owl

- Identified and observed over 25 adult owls during baseline surveys for the proposed Palo Prieto Conservation Bank and other field work in San Luis Obispo County

Other Ornithological and Acoustics

- Instructed in the identification of birds by acoustics by Dr. Eric Johnson, California Polytechnic Institute, San Luis Obispo, California (1998)
- Conducted over 50 acoustic and visual surveys for migratory nesting birds
- Volunteered for mist-netting and banding for MAPS stations at Chorro Creek, San Luis Obispo County and Oso Flaco Lake, Guadalupe Dunes, Santa Barbara County

Rare Plants

Pismo Clarkia

- Identified, delineated, and assisted in the planning and protection of one distinct population during the planning phase of a residential development in Arroyo Grande, San Luis Obispo County, California
- Well's Manzanita
- Chorizanthe rectispina
- Brewer's spine flower
- Monardella frutescens

Coho Salmon and Steelhead

- Identified, handled, and assessed hundreds of adult, smolt, and fry on the Trinity River Humboldt County while working as a Fisheries Biologist for the Hoopa Valley Indian Tribe
- Identified and observed over 300 juvenile steelhead in San Luis Creek, San Luis Obispo County, California
- Identified and observed 5 adult steelhead in Chorro Creek, San Luis Obispo County while working in coordination with Dave Highland, Native Fish Habitat Biologist with the California Department of Fish and Game



Other Fisheries

- Habitat Restoration Projects
- Steelhead
- Coho and Steelhead
- Riparian
- Wetland
- Central Coast Riparian Scrub

Specialized Training

- OSHA 40-Hour HAZWOPER
September, 2008
- Smith Systems Driver Training
August, 2008
- N.R.C.S. Red-legged frog workshop with Norm Scott
2003
- Loss Prevention System
August, 2008

Chronology

04/98-12/99: Camp Roberts Hunting and Fishing Program/Camp Roberts National Guard Facility, CA
05/00-07/02: California Department of Fish and Game/Fresno, CA
08/02-11/02: Hoopa Valley Tribal Fisheries Department/Hoopa, CA
03/03-11/04: Althouse and Meade, Inc./Paso Robles, CA
11/04-06/06: Sierra Delta Corporation/Paso Robles, CA
07/06-03/08: Colorado State University/Fort Collins, Colorado

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Alyssa J. Berry

Staff Biologist

Areas of Expertise

Monitoring Threatened and Endangered
Amphibians of California
Wildlife Surveys
Habitat Restoration

Years of Experience

With URS: >1 Year
With Other Firms: 2 Years

Education

BA/Earth and Environmental Science/
2004/Wesleyan University, CT
Course Work in Animal Diversity,
Ornithology at Santa Barbara City
College/2006

Overview

Mrs. Berry is a field biologist with over three years of experience monitoring California Threatened and Endangered species and restoring native habitat. Alyssa's survey work has covered areas of the central coast, the high desert region of Northern California, and Mojave desert, focusing on California red-legged frogs and arroyo toads in the Los Padres National Forest, the Northern spotted owl in the Klamath National Forest and desert tortoise in Johnson Valley. Her conservation efforts have included ecological restoration, concentrating on the re-vegetation of disturbed habitat with genetically local, native plant species. Alyssa has propagated site-specific grassland, chaparral, riparian and coastal dune species for ecological restoration. She has aided in the design and installation of several restoration sites. More recently Alyssa has expanded her herpetological survey experience to include blunt-nosed leopard lizard and California tiger salamander.

Project Specific Experience

Wildlife Experience

California Tiger Salamander (*Ambystoma californiense*)

Santa Maria, CA – Under the supervision of Tom Olson and authorization of his recovery permit, visually evaluated burrows with a scope to determine presence of California tiger salamanders and hand excavated vacant burrows to prevent future use. Perform daily early morning clearance surveys to detect California tiger salamanders prior to construction activities, from March 2008 to present.

Blunt-Nosed Leopard Lizard (*Gambelia sila*)

Four positive identifications under supervision of a Level II surveyor

- California Valley, CA – Surveyed for blunt-nosed leopard lizards using the CA Department of Fish and Game Protocol.
- Belridge, CA – Surveyed for blunt-nosed leopard lizards using the CA Department of Fish and Game Protocol. Identified blunt-nosed leopard lizards at a reference site.
- Coalinga, CA – Surveyed for blunt-nosed leopard lizards using the CA Department of Fish and Game Protocol.

Desert Tortoise (*Gopherus agassizii*)

Over 16 hours of positive contact

- Attended the Desert Tortoise Council's Introduction to surveying, monitoring and handling techniques workshop.
- Conducted USFWS Protocol surveys for DT in Johnson Valley, CA.

California Red-legged Frog (*Rana aurora draytonii*)

Over 50 hours of positive contact

- Construction monitoring and relocation of California red-legged frogs for the Winchester Canyon Road Culvert Repair Project, Santa Barbara County, CA. Relocation authorization given by USFWS biologist, Chris Dellith.
- Biology and Management of California red-legged frog Workshop, Elkhorn Slough National Estuarine Research Reserve, Instructors, Galen Rathbun and Norman Scott.
- Santa Maria, CA – Morning eye-shine surveys to clear soil remediation site. Qualifications approved by USFWS biologist, Chris Dellith.
- Guadalupe, CA – Evening eye-shine surveys to monitor presence/absence of CRLF in newly created wetlands within the Guadalupe Soil Remediation site.
- Los Padres National Forest, Santa Barbara, CA – Surveyed for California red-legged frog egg masses, tadpoles, sub-adults and adults. Captured all life stages to measure morphological characteristics. Used Garmin GPS waypoints to map locations of individuals and areas of critical, potential and unsuitable habitat. Performed night surveys to monitor for breeding individuals, using eye-shine techniques.

Arroyo Toad (*Bufo californicus*)

Over 30 hours of positive contact

- Los Padres National Forest, Santa Barbara, CA – Surveyed for Arroyo toad egg strings, tadpoles, sub-adults and adults. Captured all life stages to measure morphological characteristics. Used Garmin GPS waypoints to map locations of individuals and areas of critical, potential and unsuitable habitat. Performed night surveys to monitor for breeding individuals, using eye-shine techniques.

Small Mammal Trapping

- California Valley, CA – Processed small mammal traps, capturing San Joaquin pocket mice (*Perognathus inornatus*), under the permit and training of Curtis Uptain.
- California Valley, CA – Under the permit and training of Paul Collins, curator of Santa Barbara Natural History Museum, baited Sherman's traps and processed small mammals, including San Joaquin pocket mouse, California pocket mouse (*Chaetodipus californicus*) and Heermann's kangaroo rat (*Dipodomys heermanni*).
- Guadalupe Dunes, CA – Processed small mammals under the supervision of Jane Donaldson, including California pocket mouse and Heermann's kangaroo rat.



Northern Goshawk (*Accipiter gentilis*)

5 hours of positive contact

- Klamath National Forest – Performed transect surveys while playing recorded vocalizations to solicit a response from Northern goshawks. Performed nest searches.

Swainson's Hawk (*Buteo swainsonii*)

20 hours of positive contact

- Macdoel, CA – Performed nest searches to locate Swainson's hawk fledglings and pairs. Banded individuals and recorded band numbers of previously banded individuals.

Habitat Restoration Experience

- Developed a restoration plan for six wetland pools designed for California red-legged frogs, California tiger salamanders and Western spadefoot toads, including specification for plant species to be planted, monitoring and maintenance procedures and irrigation at the Casmalia Landfill, CA.
- Conducted annual vegetation transect monitoring to measure plant cover and diversity of restoration sites.
- Composed annual restoration monitoring reports for the Santa Barbara Airport wetland restoration. Analysis included percent native and non-native cover, percent survival and percent cover by species.
- Assisted in the restoration of tidal wetlands at the Santa Barbara Airport by collecting local, California native plant seed and propagating native plants for re-vegetation.
- Assisted in restoration of disturbed coastal dunes by collecting genetically local, native plant seed.
- Assisted in the bluff's restoration at Nicholas Canyon State Park, Malibu by in-planting 2,000 native plants.
- Assisted in restoration of the Santa Barbara County landfill by installing irrigation systems, planning and planting 1,000 California native plants.
- Removed invasive weeds, including tamarisk, yellow/purple star-thistle and pampas grass from the Los Padres National Forest.

Vegetation Survey Experience

- Orcutt, CA – Created vegetation community maps using the Sawyer and Keeler-Wolfe, Rapid Assessment method for over 1400 acres of oil field property.
- Bakersfield, CA – Conducted a rare plant survey along a pipeline linear to document sensitive plant species prior to pipeline removal.
- Orcutt, CA – Conducted rare plant surveys throughout the Careaga oil field lease to document sensitive plant species within the property. Generated a report including maps of the observed species and recommendations for avoidance and conservation of identified species.



- San Bernardino NF, CA – Conducted vegetation surveys to map the presence/absence of the invasive weed, *Arrundo donax* along river channels.
- Los Padres NF, Santa Barbara District, CA – Conducted vegetation surveys to map the presence/absence of yellow star thistle.
- Los Padres NF, Santa Barbara District, CA – Conducted rare plant presence/absence surveys for the Santa Ynez false-lupine (*Thermopsis macrophylla* var. *angina*), Late-flowered mariposa lily (*Calochortus weedii* var. *vestus*) and the Refugio Manzanita (*Arctostaphylos refugioensis*).

Specialized Training

HAZWOPER Annual Refresher
June 2008

Loss Prevention System
August 2007

Smith Systems Driver Training
June 2007

First Aid/CPR/AED
December 2007

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J. Wayne Vogler

Senior Biologist

Areas of Expertise

Wetland Delineations
Construction Monitoring
Flora/Fauna Surveys
Mapping Services
HAZWOPER Trained

Years of Experience

With URS: 2 Year
With Other Firms: 11 Years

Education

BS/Biological Sciences/1994/
University of California, Irvine

Registration/Certification

1997/U.S. Army Corps of
Engineers Wetland Delineation
Certification Program
2008/Level II Blunt-nosed Leopard
Lizard Surveyor

Overview

Mr. Vogler is a biologist with a well-balanced understanding of biological resources and project planning. Mr. Vogler has proved to be an asset in the planning of complex field efforts; developing strategies for performing surveys and collection data while maintaining critical data acquisition targets. Mr. Vogler's project experience has included working with federal, state, and local agencies to find consensus among several parties, often with conflicting interests, toward the successful completion of the project. Mr. Vogler developed an instituted monitoring protocols, developed restoration plans, and monitored one of the largest hydrocarbon remediation projects along the U.S. Western Coast. Wayne has maintained compliance with Health and Safety training requirements, including some specialized training, since 1996; he is fully-versed in the health and safety culture.

Project-Specific Experience

Sensitive Species Experience

California Red-legged Frog (*Rana aurora draytonii*) identified presence through eyeshine survey techniques for hundreds of individuals, pit-tagged dozens of individuals, identified and differentiated individuals from other amphibian species.

- San Luis Obispo and Santa Barbara County – Conducted presence/absence surveys for California red-legged frogs and mapped habitats. 1999 through present.
- Chevron Guadalupe Restoration Project - Permitted to survey, capture, handle, and relocate California red-legged frogs. Includes pit-tagging and radio-tracking of individuals to monitor relocation efforts. Adult surveys include quarterly census surveys, presence/absence, and construction site clearance surveys. Survey efforts for tadpoles, including dip-netting and use of minnow traps. 1999 through present.
- Chevron Wylie Remediation Project, Santa Maria, CA – Habitat assessment, clearance surveys of work areas, and consultations with regulatory agencies. October 2007 to present.
- Capture, Handling, and Pit Tagging Workshop, Grover Beach, CA - small group led by Galen Rathbun on techniques to safely capture and handle California red-legged frogs, using bullfrogs (*Rana catesbiana*) as surrogates. Hands-on use of pit tag equipment on live bullfrogs. Workshop conducted in support of obtaining U.S. Fish and Wildlife approval to conduct such activities under the Guadalupe Restoration Project Biological Opinion. 2000.

Desert Tortoise (*Gopherus agassizii*)

- Solar Energy Project, Johnson Valley, San Bernardino County, CA – habitat assessment and survey of 14 square miles. Protocol surveys for desert tortoise. Acted as survey crew leader. Other species commonly

J. Wayne Vogler

observed include desert horned lizard (*Phrynosoma platyrhinos*) and long-nosed leopard lizard (*Gambelia wislizenii*). March to June 2008.

- Solar Energy Project, Johnson Valley and Hector Valley, San Bernardino County, CA – survey area of over 20,000-acres for protocol surveys for desert tortoise. Surveyed project site and proposed transmission line corridors. Also conducted general habitat mapping, Waters of the U.S. delineations, rare plant surveys, and habitat surveys for the Mojave ground squirrel (*Spermophilus mohavenissi*). March to July 2007.
- Mojave Desert – Completion of the Desert Tortoise Council Annual Surveying, Monitoring, and Handling Techniques Workshop. Training included survey techniques for individuals and their sign, assessment of habitat, handling techniques, and burrow construction. 2003.

Wetland Delineations

- Performed the initial survey and subsequent update surveys to identify and delineate wetlands according to federal definitions at the 2,800-acre Guadalupe Restoration Project. Employed both routine and comprehensive survey methods with findings reviewed by USACE and NRCS. 1997 and 2004.
- Performed the initial survey and subsequent update surveys to identify and delineate wetlands according to California state definitions at the 2,800-acre Guadalupe Restoration Project. Developed specific analysis methods to satisfy CCC concerns. Findings reviewed by CDFG and CCC 1998 and 2003.
- Guadalupe-Nipomo Dunes – Conduct an identification survey of wetland habitats throughout the entire dunes complex. Developed identification and screening criteria, classification and descriptive identifiers, and survey methodology. Employed aerial photography interpretation for initial target identification. Mapped wetland habitats with sub-meter GPS unit for data to be incorporated into an existing GIS project. 2004 to present.
- Administrative Hearing with the Army Corps of Engineers for the Santa Maria Airport District. Presented to Hearing Officer in support of District's opinion that wetlands unfairly identified by ACOE personnel. Hearing resulted in no action taken by ACOE against District.

General Vegetation Surveys, Wildlife Surveys, and Habitat Assessment

- Conducted regimented surveys and mapping efforts for La Graciosa thistle (*Cirsium loncholepsis*), surf thistle (*Cirsium rhotobopulum*), and beach spectacle-pod (*Dithyrea maritima*). Initial survey and mapping of presence. Annual censusing of populations. Monitoring of construction activities to ensure avoidance of disturbance to individuals and habitat. 1998 to present.
- Prepared biological sections for Application for Certification documents submitted to the California Energy Commission regarding power generating stations. September 2006 to present.



J. Wayne Vogler

- Presence survey. Population mapping, and habitat assessment for Gaviota tarplant (*Deinandra increscens* ssp. *villosa*) for a naturally vegetated 16-acres site at Vandenberg Air Force Base, California. June 2006.
- Habitat Inventory and Ecological Database (HIED) development for the 2,800-acre Guadalupe Restoration Project. Scope included the initial mapping of sensitive flora, sensitive fauna, weed infestation, habitat quality, and several other parameters. Data developed from aerial photograph interpretation, qualitative and quantitative surveys, and specific presence/absence surveys per species. Updated annually. 2002 to present.
- Pre-disturbance assessment and restoration monitoring surveys to determine habitat composition and quality. Developed protocols for photograph documentation efforts. Spring 1998 to present.
- Construction monitoring to ensure compliance with over 1,200 permit conditions. Work with contractors and construction personnel to minimize native habitat disturbance and avoid sensitive and listed flora and fauna. Spring 1998 to present.

Specialized Training

- Annually/8-Hour HAZWOPER Annual Refresher
- 2006/Loss Prevention System Training, a Behavior Based Safety Program
- 2006/Smith System Advanced Driving Traffic Safety
- 2003/PADI Certified Open Water Diver
- 2001/Stormwater Pollution Prevention on Construction Sites, California State Water Resources Control Board
- 1996/40-Hour Hazardous Waste Workers' and 24-Hour First Responder Health and Safety Training

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