

Pico Power Project

***Appendix 8.2-C
Biological Resources Resumes***

- ***Brett D. Hartman***
- ***Jane Valerius***

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EXPERIENCE SUMMARY

Mr. Hartman is a Sr. Associate Ecologist with FWENC in the Sacramento Office. Mr. Hartman has 10 years of experience in restoration ecology and natural resource management, and has worked as an environmental consultant in California for the past two years. His experience includes vegetation mapping, wetland delineation, soil analysis, special status species surveys, and NEPA/CEQA, ESA, and CWA documentation and permitting. Mr. Hartman has worked in several California ecosystems in the Central Valley, the San Francisco Bay, the Coast Ranges, the Sierra Nevada, and the Inland Empire. Mr. Hartman has also developed ecosystem restoration and natural resource management plans in a wide variety of ecosystems in California, northeastern U.S., and the lowland tropics & highland Andes in South America.

Mr. Hartman has extensive international experience. He has lived in Brazil, Honduras, Bolivia and Peru. He is fluent in Spanish and familiar with Portuguese. Mr. Hartman has worked in conservation and development issues such as agroforestry, watershed management, and restoration of forest, wetland, and grassland ecosystems in the lowland tropics & highland Andes.

TRAINING

- PM 100 Training, Sacramento, CA
- Wetland Delineation and Management Training, Sept. 17-20, 2001, Sacramento, CA

In addition, Mr. Hartman has facilitated professional workshops and presented at conferences/symposia, including:

- Using ecosystem management to restore of the *Polylepis* woodlands of the highland Andes - 12/98
- Yale F&ES urban social ecology training module- 08/96 & 08/97
- FAO FTTP-CERES/NUR University *Participatory Rural Appraisal* course – 04/94-05/94
- CARE *Participatory Rural Appraisal* Workshop - September 1993

EDUCATION

MFS, Restoration Ecology, Yale University School of Forestry & Environmental Studies
BS, Environmental Science, University of New Hampshire

REPRESENTATIVE PROJECT EXPERIENCE

USFS Region 5/Herger-Feinstein Quincy Library Group Forest Recovery Act Administrative Study BA/BE; Responsible for sections of the plant biological assessment & biological evaluation for a ten year administrative study on the effects of a range of treatments associated with the Herger-Feinstein Quincy Library Group Forest Recovery Act. The Study area includes

Pacific Gas & Electric/Habitat Conservation Plan for Operations & Maintenance Activities in the San Joaquin Valley, CA, September 2001 – present; A two year project, task manager for botany portion of the Habitat Conservation Plan and associated NEPA/CEQA documentation. Responsibilities include identifying plant species to be included in the HCP (including state and federally listed species, candidate species, and species of concern likely to be listed within the time period of the HCP), field surveys, evaluating the effect of PG&E operations and management activities on plant species, and developing appropriate mitigation measures. It is expected that there will be purchase of extensive mitigation lands, which may involve habitat restoration.

Regulatory issues: ESA Section 10; NEPA/CEQA Documentation; valley & foothill grassland, cismontane woodland, chenopod scrub, coastal scrub & chaparral habitats; approximately forty state and federal threatened and endangered, candidate species of concern, and CNPS List 1B plant species.

US Forest Service/Plumas National Forest/Slate Creek DFPZ Biological Surveys, April 2001 – present; Assisted in administration of wildlife surveys, and task manager for the plant species of interest surveys associated with the Slate Creek Defensible Fuel Profile Zone project in the Plumas National Forest. Assisted in project administration, worked with client and subcontractors, and performed field surveys for plant species of interest on approximately 3,500 acres of mixed conifer forests.

Regulatory issues: NEPA, ESA, and Threatened, Endangered, and FS Region 5 sensitive plant species; Spotted owl, forest carnivores, goshawks, herpetiles; found a total of 16 records for TE&S plant species.

Calpine/Bechtell Enterprises/Russell City Energy Center/Application for Certification – Biology Section, February 2001 – present; Performed field surveys, AFC document preparation, and subsequent wetlands permitting and mitigation. Performed floristic surveys, wetland delineation, and research into effects of transmission lines and communication towers on avian mortality. Prepared the biology section of the AFC, which the California Energy Commission used as an example of data adequacy. Prepared Biological Assessment for USFWS, wetland permitting, and development of a mitigation plan for 23 acres of salt marsh restoration.

Regulatory Issues: NEPA, ESA Section 7 Consultation, CWA Section 404; Salt Marsh restoration in the San Francisco Bay, TE&S plant species, salt marsh harvest mouse, California clapper rail, California least tern, and western snowy plover.

U.S. Forest Service/Lassen National Forest/ Environmental Assessment for Storrie Post-Fire Restoration Project, December 2000 – present; Prepare restoration plan for 6,000+ acre Storrie Fire project area in the Almanor Ranger District, Lassen National Forest. Plan included, salvage harvest, fuels treatments, reforestation/revegetation, and integrated design features for riparian restoration, slope stabilization, and late successional snag and large woody debris retention. Coordinated with logging system and transportation, fuels management, watershed, and various resource specialists. Analyzed successional trends and effects of No action, Proposed Action, and one Alternative Action in timber – vegetation report. Assisted in report preparation/editing of EA Chapters II & III.

Regulatory Issues: NEPA analysis; Sierran mixed conifer forests; montane chaparral; riparian forests; late successional forest structure for PAC, SOHA, GMA & Carnivore HMA; RHCA management; fuels management; TES plant species.

Calpine c*Power AB970 Projects/Application for Certification, September 2000 – December 2000; Performed field surveys, AFC document preparation, and subsequent data requests associated with licensing three mobile peaking plant sites in the Central Valley and San Francisco Bay area, CA. Responsible for floristic surveys, vegetation mapping, wetland delineation, and development of mitigation measures in compliance with applicable county, state and federal laws, ordinances, regulations and standards, and California Energy Commission procedures.

Regulatory Issues: Environmental effects of peaking plants and natural gas pipeline on biological resources; degraded vernal pools/farmed wetland pastures; black shouldered kite; coastal salt marsh; alkaline vernal pools; alkalai milk-vetch.

Florida Power and Light/Rio Linda Power Project Application for Certification – September 2000–December 2000; Performed field surveys, AFC document preparation, and subsequent data requests associated with licensing a co-generation plant and linear facilities in Sacramento and Yolo County, CA. Performed floristic surveys, vegetation mapping, vernal pool delineation, and mitigation planning. Developed mitigation measures in compliance with applicable laws, ordinances, regulations and standards, and California Energy Commission procedures.

Regulatory Issues: Environmental effects of co-generation plant, access road, T-line, and natural gas pipeline on biological resources; valley oak/cottonwood riparian woodland; emergent wetland; vernal pools & fairy shrimp; burrowing owl; Swainson's hawk; giant garter snake; valley elderberry longhorn beetle.

360 Networks/Oregon to Sacramento Fiber Optic Conduit Installation Project, July 2000 to September 2000 – Biological resource specialist for SAC II construction pair. Responsible for pre-construction field surveys. Coordinated with California Department of Fish & Game, California Public Utilities Commission, and Environmental Inspectors to ensure construction complied with all applicable state and federal regulations.

Regulatory Issues: Sediment control and spill prevention plan; Streambed Alteration Agreement; Nationwide 404; noxious weeds; valley oak/cottonwood riparian woodland; emergent wetland; willow scrub wetland; raptor's nests; giant garter snake; valley elderberry longhorn beetle.

PRIOR EXPERIENCE

Level(3)Communications Fiber Optic Conduit Installation Project, September 1999 to July 2000 – Level(3)Communications fiber optic cable projects in the Central Valley, Klamath Range, San Francisco Bay, Los Angeles Basin, and San Bernardino. Responsible for wetland delineation, special status species surveys, and jurisdictional determination for water crossings. Contributed to biological evaluation and jurisdictional delineation reports, development of mitigation measures, and 1603 Streambed Alteration Agreement permits. Implemented environmental regulations as a biological monitor.

Regulatory Issues: Sediment control and spill prevention plan; Streambed Alteration Agreement; valley oak/cottonwood riparian woodland; vernal pools; emergent wetland; giant garter snake; valley elderberry longhorn beetle; osprey; Butte County Morning Glory; San Diego horned lizard; chamise chaparral; Desert wash scrub.

Fulbright Foreign Scholarship Board/The Mountain Institute, September 1997- September 1998; Developed and implemented independent research on the restoration of the *Polylepis* woodlands/bunchgrass steppe complex in the Highland Andes. Consulted on affiliate organization conservation and development projects in Huascarán National Park and the Cordillera Huayhuash. Restoration plans were developed based on:

- a) the effect of human use on forest structure
- b) the effect of fire, grazing, wood harvest, and understory vegetative structure on regeneration
- c) effect of forest fragmentation on plant biodiversity

- d) strategies to manipulate ecosystem processes such as grazing, fire, and seed dispersal to stimulate regeneration and succession

Regulatory Issues: Conservation & Development; Man and the Biosphere Reserve; World Heritage Site; *Polylepis* woodlands

Yale University School of Forestry and Environmental Studies / Urban Resources Initiative, May 1996 – August 1997; Coordinated community forestry efforts in seven New Haven neighborhoods for Community Greenspace project. Project coordinator for Neighborhood Forests project. Used ecosystem approach to rehabilitation of the blighted urban environment, including restoration of canopy cover for air quality and energy conservation, the effect of urban runoff on water quality in Long Island Sound, neighborhood beautification efforts, and development of community greenspaces such as pocket parks. Assisted in development and facilitation of urban ecosystem management training module for incoming students. Significant achievements included establishment of a wildflower/butterfly garden reported in several local newspapers, and enhancement of bird habitat in an urban green corridor.

Tropical Resources Institute / NUR University / Dorothy Baker Environmental Studies Center, May 1995 – December 1995; Consulted on a watershed rehabilitation program in the dry puna of highland Bolivia. Developed a land rehabilitation and *bofedal* (seep system wetland) restoration plan following a Participatory Rural Appraisal (PRA) with seven communities. Used grazing management, check-dams, and other erosion control techniques to rehabilitate gullies and restore seep system flow. By 1997, five bofedales had been restored, a major source of dry season forage.

NUR University / San Rafael de Amboro Environmental Studies Center, October 1992 – July 1994; Implemented field research and community development work in the buffer zone of Amboro National Park, in submontane and lowland tropical Bolivia. Coordinated Participatory Rural Appraisals (PRA), agroforestry and forest restoration with *campesino* farmers, and environmental education. Team member and facilitator for workshops on PRA and natural resource management.

Regulatory issues: National Park Management; Conservation and Development

University of New Hampshire / Department of Plant Biology, May 1991 – August 1992; Conducted field research on northern hardwood/boreal forests in the White Mountains of New Hampshire. Established plots and sampled forest structure and composition, including 14 tree species. Characterized and described soils based on landform analysis and soil pit sampling. Included as co-author in paper on global warming and the potential for tree migration.

PROFESSIONAL ACCOMPLISHMENTS

William J. Fulbright Foreign Scholarship (1997)
Yale University President's Public Service Fellowship (1996)

PUBLICATIONS

Lee, T.D., J.P. Barrett, & B.D. Hartman. *In review*. Elevation, Substrate, and the Potential for Tree Migration in the White Mountains of New Hampshire. *Vegetatio*.

Hartman, B.D. 1995. Watershed Rehabilitation and Restoration of Dry Season Grazing Resources in the Dry Puna of Bolivia. *TRI News* 14(1):24-27.

Landscape Scale Socioecological Surveys: a Proposal for the Cordillera Blanca and Huayhuash (1988). Concept Paper submitted to The Mountain Institute, Peru. Hartman, B.D. *Manuscript in process*. Landscape Rehabilitation and Ecological Restoration in the Highland Andes: the *Polylepis* Woodlands.

Participatory Rural Appraisal for watershed rehabilitation in the Ayllu Majasaya, Tapacari Province, Bolivia (1995). Dorothy Baker Environmental Studies Center, Cochabamba, Bolivia.

Resource Management Plan for the Sky Ranch Property, Contra Costa County (1999). Muir Heritage Land Trust, Martinez, CA.

Resource Management Plan for an Urban Riparian Forest Fragment: Pond Lily (1997). New Haven Land Trust, New Haven, CT.

Urban Forests Project: Fairhaven Report (1996). Urban Resources Initiative, Yale School of F & ES, New Haven, CT.

Community Greenspace Project: Beautification Project (1995). Urban Resources Initiative, Yale School of F & ES, New Haven, CT.

Hartman, B.D. 1996. What is the Recipe for Success? Members of New Haven Communities Report on the Success of the Neighborhood Forests Project. *Urban Issues* 7(2):8,15.

Hartman, B.D. 1996. Cutting Your Teeth in New Haven. *Urban Issues* 7(1):10,13.

JANE E. VALERIUS

1262 Mt. View Avenue, Petaluma, CA 94952
(707) 765-9475 (home/office) or (707) 522-9752 (voice mail)
email address: jane_valerius@msn.com

EDUCATION

- ⇒ Master of Science, Range Ecology, Colorado State University, Fort Collins, CO, May 1982
- ⇒ Bachelor of Arts, Environmental Biology, University of Colorado, Boulder, CO, December 1977

QUALIFICATIONS

- ◆ Over 19 years of experience conducting ecological, botanical and wetland studies in California, Oregon, Idaho, Colorado, Wyoming, Utah, Arizona, and North Dakota.
- ◆ Specialize in flora of the western United States; conducted special status plant surveys according to California Department of Fish and Game protocol for Marin, Sonoma, Napa, Alameda, Butte, Sacramento, Yolo, Solano, and San Bernardino counties.
- ◆ Extensive experience with wetland delineations, permitting, mitigation plans, creation and construction of wetlands, including vernal pools.
- ◆ Work with both the San Francisco and Sacramento U. S. Army Corps of Engineers districts. Experience with NEPA/CEQA.
- ◆ Prepare restoration, revegetation, and reclamation plans. Prepare exotic pest plant control plans.
- ◆ Manage and prepare open space management plans.
- ◆ Monitor environmental compliance of mining operations, transmission line, and residential development projects.
- ◆ Active in professional organizations including past Director-at-Large for the Society for Ecological Restoration (1994-1997), member of the California Native Plant Society and California Exotic Pest Plant Council.
- ◆ OSHA trained (40-hour) and HEP certified.

EMPLOYMENT HISTORY

<i>Principal</i>	1/10/98-present	Valerius Environmental Consulting Petaluma, CA
<i>Senior Consultant/ Project Manager</i>	1995-1/9/98	Resource Management International, Inc. San Rafael, CA
<i>Botanist/Project Manager</i>	1991-1995	Western Ecological Services Company, Inc. Novato, California
<i>Environmental Specialist</i>	1989-1991	U. S. Army Corps of Engineers, Environmental Branch, San Francisco, CA
<i>Senior Environmental Specialist</i>	1986-1989	Wyoming Dept. of Environmental Quality Lander and Cheyenne, Wyoming
<i>Research Associate</i>	1979-1986	Keammerer Ecological Consultants, Inc. Boulder, Colorado

REPRESENTATIVE PROJECTS

Robinson Rancheria, Nice, CA. Conducted a wetland delineation for over 30 acre which was approved. Currently preparing the Wetland Mitigation Plan for approval by the U. S. Army Corps of Engineers, Sacramento District. Working with the tribe to assist them with other biological and wetland issues.

Sky Valley Residential Development, Vallejo, CA. Project Manager responsible for all of the biological, regulatory, and wetland creation and monitoring needs of a 1,300-acre residential development. Prepared the wetland mitigation plan for the creation of over 10 acres of seasonal and perennial wetlands. Assisted the client's attorneys in a legal dispute. Coordinated with U. S. Fish and Wildlife Service regarding the presence of California red-legged frogs on the site. Monitored and collected data for the annual report to the Corps of Engineers.

Lynch Canyon, Sky Valley, and Northgate Resource Management Plans, Solano County, CA. Project manager responsible for managing two subconsultants and for preparing the biological, habitat enhancement, trails, public access and safety sections of the plans. Lynch Canyon, a 1,039-acre open space near Fairfield, CA is owned by the Solano County Farmlands and Open Space Foundation (SCF&OSF), and Sky Valley (700 acres) and Northgate (600 acres) are owned by the Greater Vallejo Recreation District. Hosted three public meetings to gather public input into the plans. Interacted with the Board of Directors, the Tri-City and County Cooperative, landowners, and other interested parties.

McClellan Air Force Base, Lincoln, and Davis Communications Facilities, Sacramento and Yolo Counties, CA. Conducted special status plant surveys for over 80 vernal pools for two sequential years for these three sites. Also monitored the special status plant populations at the Davis site which included Colusa grass (*Neotapfia colusana*) and Crampton's tuctoria (*Tuctoria mucronata*).

River Docks, Gwen Antenna and Camp Kohler Communications Facilities. Conducted reconnaissance level surveys and prepared a report for these three sites for McClellan Air Force Base. The following year we conducted full season special status plant and animal surveys for the Gwen Antenna and Camp Kohler sites. No special status plants were found.

Wetland Delineation of 60 Miles of the Gila River, Arizona. Conducted a wetland delineation for the Wellton-Mohawk Irrigation District, Wellton, Arizona along 60 miles of the Gila River as part of their permit application for levee repair.

Crown Pacific Lumber Company, Bend, Oregon. Conducted special status plant surveys between Bend and Klamath Falls, Oregon for the Crown Pacific Lumber Company as part of a proposed land exchange between Crown Pacific and the U. S. Forest Service.

High Desert Power Plant, Victorville, CA. Conducted special status plant surveys in creosote scrub, desert wash, and Joshua tree woodland communities for a transmission line and power plant in the Victorville-Adelanto area in San Bernardino county, CA. Also assisted wildlife biologists in surveys for desert tortoise and Mohave ground squirrel.

Highway 59 Landfill, Merced County, CA. Conducted special status plant surveys for a proposed landfill project near the city of Merced for a 300-acre area with over 100 vernal pools. Surveys were conducted for the preparation of the biological section of an EIR. Also managed the preparation of the wetland mitigation plan and assisted the County with agency coordination on endangered species issues, specifically for fairy shrimp.

Altamont Pass Road Realignment, Alameda County, CA. Project manager for special status plant surveys, wetland delineation, and preparation of a mitigation plan for this project. Provided consulting services for coordinating with California Department of Fish and Game and U. S. Army Corps of Engineers permitting and mitigation issues. The mitigation plan also included the creation of a pond to off set impacts to California tiger salamander.

California-Oregon Transmission Project (COTP). Conducted weekly environmental compliance inspections of the transmission line from Tracy, CA to the Tesla substation. Conducted wetland mitigation monitoring and data collection for the Edson Creek restoration project in McCloud, CA which was mitigation for impacts to wetlands by one of the transmission line towers. Collected vegetation cover and species diversity data for vernal pool mitigation at Millville Plains outside of Redding, CA which was also mitigation for the transmission line.

Eagle Rock Ranch Restoration Project, Swan Valley, Idaho. Assisted in restoration activities, including native seed collection on adjacent properties, planting aspen trees, seeding grasses and shrubs, and some design of the conversion of 500 acres of cropland to native grassland, shrubland, and aspen woodland. This property is owned by Mark Rockefeller and his goal is to restore all 4,000 acres of his property to native plant communities to promote wildlife use in this area.

Wild Horse Valley Ranch, Napa, CA. Project Manager responsible for overseeing surveys for special status plants and animals, a wetland delineation, and tree inventory for 550 acres of the 5,000-acre ranch in Napa County. Also prepared a revegetation plan for the entrance road into the proposed project area.

Conceptual Mitigation Plan for *Dudleya setchellii* and *Streptanthus albidus* ssp. *albidus*, The Valley Christian School Site, San Jose, CA. Project Manager and co-author of a conceptual mitigation plan for two serpentine special status plant species: *Dudleya setchellii* and *Streptanthus albidus* ssp. *albidus*. Because there was little to no published information on these two species, preparation of the plan required extensive literature review and contact with individuals and companies that had any involvement with these or similar species.

Habitat Restoration and Management Plan for D-Q University, Winters, CA. Prepared a restoration and revegetation plan for a proposed 60-acre preserve on the D-Q University campus, run and operated by and for Native Americans. The plan focused on the use of plants used by Native Americans for food, basket weaving, and medicinal uses. The plan was to be used as part of the curricula for the university and was to be implemented by the students

Enlargement of Magalia and Paradise Reservoirs, Paradise, CA. Project Manager responsible for conducting special status plant and animal surveys and for completing the wetland delineation for both reservoirs owned and operated by the Paradise Irrigation District. The delineation was approved by the Sacramento District of the Corps. Two special status plant species were found: shield-bracted monkeyflower (*Mimulus glaucescens*) and Butte County calycadenia (*Calycadenia oppositifolia*). Three special status animal species were found: foothill yellow-legged frog, California spotted owl, and osprey.

PUBLICATIONS

California Red-Legged Frog Colonization of a Wetland Mitigation/Restoration Site and Golf Course. Presented at the Society for Ecological Restoration conference held at Rutgers University, Rutgers, New Jersey, on June 21, 1996.