

TONY BOMKAMP

Senior Wetland Specialist/Biologist

Mr. Bomkamp is a field biologist, wetlands ecologist, and regulatory specialist with an extensive background in environmental studies. As a botanist, Mr. Bomkamp has diverse field experience extending back over 30 years in all of the major vegetation communities in Southern California. He is a recognized expert in the Southern California flora and is past President of the Orange County Chapter of the California Native Plant Society (CNPS). Mr. Bomkamp has particular expertise in wetland and riparian ecology, having been the primary field investigator on a two-year study of all riparian and coastal wetlands in Los Angeles and Ventura counties for the Los Angeles Regional Water Quality Control Board. He has also performed and supervised numerous wetland delineations throughout California and Nevada that include a variety of wetland habitats. Mr. Bomkamp also serves as part-time faculty at California State University, Fullerton, for the graduate Environmental Studies Program, teaching courses on wetlands and endangered habitats.

Professional Experience

As Senior Biologist and Regulatory Specialist has conducted wetland delineations and wetland functional assessments for numerous projects in southern California such as the 6,335 acre East Orange Planned Community in Orange County, 4,000 acre Ladera Ranch project in south Orange County. For Ladera Ranch, designed, implemented and monitored approximately 42 acres of wetland and riparian habitat through five-year monitoring program, including full buyoff by Corps and CDFG.

Conducted wetland delineation in support of Section 404, 401 and 1600 Authorizations and for a Coastal Development Permit for 250-acre Marblehead Coastal Project in San Clemente. Other tasks included full suite of biological surveys, design of and preparation of Habitat Mitigation and Monitoring Plan, construction monitoring and ongoing permit compliance during construction and implementation of habitat restoration.

Conducted wetland delineation and functional assessment for the Arroyo Trabuco Golf Course, adjacent to Trabuco Creek in Mission Viejo, California. Also designed detailed program for monitoring riparian habitat occupied by least Bell's vireo associated with diversion of stream flows for golf course irrigation. Monitoring is ongoing and includes collection of vegetation data as well as water potential data from upstream and downstream of diversion site.

Conducted jurisdictional delineation for approximately 8,000 acres of 23,000-acre SAMP study area associated with Rancho Mission Viejo "Ranch Plan" study area in south Orange County. Duties included field delineation, verification visits with Corps and CDFG, preparation of Functional Assessment relative to giant reed eradication in San Juan and Trabuco Creeks and preparation of Permit packages for Corps, CDFG and RWQCB.

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Performed wetland delineations, impact assessments, and/or permit processing for numerous project including: Newport Beach groundwater development pipeline in Newport Beach; Las Flores Ranch, an 8,000-acre community in Hesperia; Palos Verdes Golf Club; Glenfed Parcel H site in San Juan Capistrano; Brea Creek, Buena Park; Bull Creek Flood Control Channel at the Joseph Jensen Filtration Plant; Arroyo Trabuco Creek in Rancho Santa Margarita; and La Sierra College, Riverside.

Conducted vernal pool wetland delineation at Mystery Mesa, Los Angeles County, Fairview Park in Costa Mesa, and Otay Mesa in San Diego County.

Conducted protocol surveys for San Diego fairy shrimp (*Branchinecta sandiegoensis*), Riverside fairy shrimp (*Streptocephalus woottonii*), and vernal pool fairy shrimp (*Branchinecta lindali*) within the 10,000-acre study area associated with the Foothill Transportation Corridor in southern Orange County, the 5,000-acre Ladera Planned Community study area in southern Orange County, eight vernal pools at Fairview Park, Costa Mesa in central Orange County, nine vernal pool basins at University Research Park, Irvine.

Conducted protocol surveys for least Bell's vireo and other special-status riparian birds on numerous sites throughout southern California including Mill Creek in Chino, the Santa Ana River in Riverside and Orange Counties, Santiago Creek and Peter's Canyon Reservoir in East Orange, San Diego Creek and Santa Ana River mouth in Central Orange County, San Juan and Trabuco Creeks in south Orange County, San Mateo Creek in northern San Diego County, Pacoima Wash and Basin and La Tuna Canyon Creek in Los Angeles County, and a variety of smaller drainages in Orange, Riverside, San Bernardino, San Diego and Los Angeles Counties.

Performed numerous focused surveys for sensitive and endangered plant species, including (but not limited to) Santa Ana River woollystar (*Eriastrum densifolium* ssp. *sanctorum*), a new species of nolina (*Nolina cismontana*), Braunton's milk vetch (*Astragalus brauntonii*), Orcutt's spineflower (*Chorizanthe orcuttiana*), Otay Mesa mint (*Pogogyne nudiscula*), southern tarweed (*Hemizonia parryi* ssp. *australis*), big-leaved crown beard (*Verbesina dissita*), San Diego button celery (*Eryngium aristulatum* ssp. *parishii*), Orcutt's grass (*Orcuttia californica*), spreading navarretia (*Navarretia fossalis*), prostrate navarretia (*Navarretia prostrata*), Conejo buckwheat (*Eriogonum crocatum*) and Blochman's dudleya (*Dudleya blochmaniae*).

Education

- M.S. Environmental Studies, California State University, Fullerton.
- B.A. Biology, California State University, Fullerton.