

ROSS P CLARK IV
DIRECTOR OF THE CENTRAL COAST WETLANDS GROUP, MOSS LANDING MARINE LABS
& CLIMATE ACTION COORDINATOR, CITY OF SANTA CRUZ
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EDUCATION

Moss Landing Marine Laboratories
Masters of Science, Marine Sciences; Ecology June 1996

University of California, Santa Barbara
Bachelor of Arts Degree. Aquatic Biology Major June 1990

SUMMARY

Environmental Program Coordinator and Coastal Scientist with broad-based experience in environmental program development for coastal communities including: wetlands restoration and research, nutrient load reductions through wetland restoration, integration of environmental objectives into agricultural businesses and municipal planning, and climate change impacts from sea level rise. Strong background in program development, contract management and grant implementation focused on aiding State efforts to achieve its environmental objectives.

RELEVANT WORK EXPERIENCE

Director of the Central Coast Wetlands Group July 2010-present
Charged with developing regional programs to improve the restoration and management of wetland resources and reduce ambient nutrient loading on the Central Coast. Manages a team of six field scientists responsible for state wetland monitoring and regional wetland restoration program implementation. Plays a leadership role in the California Wetland Monitoring Workgroup tasked with developing the tools and programs to evaluate the condition of California’s wetlands and the programs in place to protect them. Part of the original Focus on integration of wetland restoration into regional water quality and land use planning efforts and the coordination of efforts to enhance the management of wetland resources and ecological approaches to improving ambient water quality of coastal watersheds.

Climate Change Action Coordinator, City of Santa Cruz October 2007-present
Tasked with developing the city strategic plan for reducing green house gas emissions, establish programs to encourage reductions from city businesses and residence and identify key threats and appropriate responses to climate change and sea level rise. Coordinates the city Sustainability Team comprised of staff from all departments focused on a multi-faceted program to integrate City environmental programs. Analyzing short and long-term options for the adoption of renewable energy sources including wind, biofuels and solar PV.

Environmental Scientist, California Coastal Commission 1998-2010

- Staff scientist responsible for Coastal Commission water quality and wetland restoration program development. Primary author of the California Non-Point Source Control Plan (2000) designed to create tools that expand the State’s capacity to improve water quality and to evaluate programmatic and environmental success.

Watershed Restoration Monitoring Coordinator, CSU Monterey Bay 1995-1998

- Contract Manager for EPA/State Water Resources Control Board-319 grant (1995&1997 FFY). Responsible for developing work plan and budget, assuring task completion and preparing quarterly and final reports.
- Coordinated monitoring efforts for all watershed restoration projects including water quality monitoring, wetland ecology, GIS surveying, native plant survivorship and abundance and a long term monitoring data base.

CONTRACT LIST - PRIMARY AUTHORSHIP AND MANAGEMENT

Year	Title	Budget	Fund
2001	Central Coast Wetland GIS Website	300K	EPA
2003	Coast Wide Snapshot Day Program	160K	NPS
2004	Continued Support of Snapshot Day on the Central Coast	12K	Whale
2005	Implementation of California Rapid Assessment Method (CRAM) for Wetlands	120K	EPA
2005	State Funded Wetland Restoration Project Inventory	24K	NPS
2005	Central Coast Water Quality Data Synthesis Project	250K	NPS

2006	Integration of Citizen Monitoring Data into State Programs	350K	NPS
2006	State Wetland Monitoring Program Implementation on the Central Coast	250K	EPA
2007	Central Coast Wetland Working Group Science Symposium	85K	EPA
2007	Phase II State Wetland Restoration Project Inventory	27K	NPS
2007	City of Santa Cruz Climate Action Program	100K	City
2008	Phase II Implementation of Moro Cojo Restoration Plan	320K	EPA
2009	New Methodologies to Assess Seasonal Estuaries	250K	EPA
2010	Greater Monterey Regional IRWM Planning Grant (portion)	775K	DWR
2011	American Recovery and Reinvestment Act	55K	DOE
2011	Greater Monterey Regional IRWM Implementation Grant (portion)	4.3M	DWR
2012	New Tools to Assess Riparian Extent and Condition	350K	EPA
2013	Irrigation Nutrient Management-Treatment Wetlands	500K	SWRCB
2013	Validation of 3 CRAM Wetland Assessment Modules	315K	EPA
2014	Development of a Bar-Built Estuary Monitoring System with State Parks	322K	EPA
2014	Effectiveness Study of Multiple Off-Farm Water Treatment Practices	345K	CDFA
2014	Collaborative Efforts to Assess SLR Impacts in Monterey Bay	150K	OPC
2015	Coastal Protection Throguh Dune Restoration at Salinas River Beach	330K	SCC

PUBLICATIONS

- Heady, Clark, O'Connor, Clark, Endris, Ryan, Stoner-Duncan (2015) Assessing California's Bar-built Estuaries Using the California Rapid Assessment Method. *Ecological Indicators*. Vol. 58, pp.300-310
- Langridge, Hartge, Clark, Arkema, Verutes, Prahler, Stoner-Duncan, Caldwell, Guerry, Ruckelshaus, Abeles, Coburn, & O'Connor (2014) Key lessons for incorporating natural infrastructure into regional climate adapataion planning.
- Christopher W. Solek, Martha A. Sutulal, Eric D. Stein, Chad Roberts, Ross Clark, Kevin O'Connor, and Kerry J. Ritter. Determining the Health of California's Coastal Salt Marshes Using Rapid Assessment. (2012) *Wetland Policy and Science*, March pp. 8-28
- Stein, Fetscher, Clark, Wiskind, Grenier, Sutula, Colins, & Grosso (2009) Validation of a wetland rapid assessment method: use of EPA's level 1-2-3 Framework for method testing and refinement. *Wetlands*. Vol. 29, No. 2, pp. 648-665
- Sutula, Stein, Collins, Fetscher & Clark (2006) A practical guide for the development of a wetland assessment method: The California experience. *Journal of American Water Resources Association*.
- Clark, R. P. (2004) Effects of shade from multiple kelp canopies on an understory algal assemblage. *Journal of Experimental Marine Biology and Ecology*. 267, 107-119.
- Fairey, R. et al. (1998) Assessment of sediment toxicity and chemical concentrations in the San Diego Bay region, California, *USA Environmental Toxicology and Chemistry*, Volume 17, Issue 8, pages 1570–1581
- Fairey, R. et al. (1997) Organochlorines and other environmental contaminants in muscle tissues of sportfish collected from San Francisco Bay. *Marine Pollution Bulletin*. Vol. 34, No. 12, pp. 1058-1071.
- Leonard, G. H. & Clark, R. P. (1993) Point quadrat versus video transect estimates of the cover of benthic red algae. *Marine Ecology Progress Series*. 101, 203-208.

REPORTS

- Earth Matters, Santa Cruz Sentinel monthly article on local environmental topics. 2012-2014
- Using New Methodologies to Assess Bar-built Estuaries along California's Coastline 2013
- Moro Cojo Slough Management and Enhancement Plan, Status Report, 2013
- Greater Monterey Bay Integrated Regional Water Management Plan, Climate Change Adaptation Strategy, 2013
- City of Santa Cruz Climate Action Plan, 2012
- Support of the Central Coast Wetlands Group Program Objectives, 2009
- Wetland and Riparian Restoration Management Measure Tracking. 2005. California Coastal Commission & Tetratech
- Statewide Snapshot Day Report 2003. Monterey Bay National Marine Sanctuary & California Coastal Commission www.mbnms.nos.noaa.gov/monitoringnetwork/events.html
- California's nonpoint source pollution control program. 2000. State Water Resources Control Board & California Coastal Commission. <http://www.coastal.ca.gov/nps/npsndx.html>
- Northern Salinas Valley watershed restoration plan. 1997. AMBAG & Watershed Institute.
- Comprehensive watershed management solutions to nonpoint source pollution in the Salinas Valley. 1997. Final Report. Regional Water Quality Control Board. (primary author)
- Natividad Creek wetland and upland habitat restoration plan (Phase II). 1997. Creative Environmental Conservation & Moss Landing Marine Labs.