



**MARINE
RESEARCH
CONSULTANTS, INC.**

1039 WAAKAUA PL. HONOLULU, HI 96822

PHONE: (808) 988-5009
CELL NO: (808) 779-4009
EMAIL: sdollar@MRC-Hawaii.com

RESUME

STEVEN J. DOLLAR, Ph.D.
President

AREAS of EXPERTISE

Over thirty years experience dealing with coral reef ecology, and coastal oceanography in the Pacific, primarily in the Hawaiian and Marianas Islands. Extensive practical research experience in the fields of biological and chemical oceanography, marine ecology, sea turtle population dynamics, reef ecosystem stress, benthic community metabolism, sediment-water interactions, water quality monitoring, environmental impact assessment, coral transplantation and remote sensing of coral reef and coastal habitats. Particularly emphasis has been focused on effects to the nearshore environment from activities such as marine construction and dredging, sewage effluent disposal, resort and urban development, construction and operation of military installations, and any land uses that result in point and nonpoint source input to the ocean, streams and wetlands.

ACADEMIC EXPERIENCE

B.S. 1971., University of Miami, Coral Gables, Fla. Majors in Biology and Chemistry.
M.S. 1975., University of Hawaii, Honolulu, Hi. Biological Oceanography. Thesis title: *Zonation of Reef Corals off the Kona Coast of Hawaii.*
Ph.D. 1986., University of Hawaii, Honolulu, Hi. Dept. of Oceanography, Dissertation title: *Response of Benthic Ecosystems to Deep Ocean Sewage Outfalls in Hawaii: Nutrient Cycling at the Sediment-Water Interface.*

PEER-REVIEWED PUBLICATIONS

Russo, A. R., Dollar, S. J. and E. A. Kay. 1976. *An ecological survey of the Mokapu Point sewage treatment plant outfall area.* Water Resources Research Center, Univ. of Hawaii. Tech. Rpt. No. 101.

Kay, E. A., Lau L. S., Stroup, E. D., Dollar, S. J. Fellows, D. O., Young, R. H. F. 1977. *Hydrologic and ecological inventory of coastal waters of West Hawaii.* Water Resources Research Center, Univ. of Hawaii. Tech. Rpt. No. 105.

- Dollar, S. J. 1978. *Guide to research logistics in the Northwestern Hawaiian Islands*. University of Hawaii Sea Grant Working Paper No. 33.
- Russo, A. R., Dollar, S. J. and E. A. Kay. 1979. *Ecological observations off the Mokapu, Oahu ocean outfall: a post-installation study*. Water Resources Research Center, Univ. of Hawaii. Tech Rpt. No. 122.
- Dollar, S. J. 1979. *Sand mining in Hawaii - research, restrictions and choices for the future*. Sea Grant Technical paper, UNIHI-SEAGRANT-TP-79-01, Univ. of Hawaii.
- Dollar, S. J. 1979. *Ecological response to relaxation of sewage stress off Sand Island, Oahu, Hawaii*. Water Resources Research Center, Tech. Rpt. No. 124.
- Russo, A. R., Dollar, S. J. and E. A. Kay. 1980. *Benthic ecosystem and fish populations off the Mokapu outfall: a second post-installation study*. Water Resources Center, Univ. of Hawaii Tech. Rpt. No. 132.
- Grigg, R. W. and S. J. Dollar. 1980. *The status of reef studies in the Hawaiian Archipelago*. In: *Proceedings of the Symposium on the Status of Resource Investigations in the Northwest Hawaiian Islands*. Sea Grant Miscellaneous Report UNIHI-SEAGRANT-MR-80-04, Honolulu, Hawaii.
- Dollar, S. J. and R. W. Grigg. 1981. *Impact of a kaolin clay spill on a coral reef in Hawaii*. *Marine Biology* 65:269-276.
- Dollar, S. J. 1982. *Wave stress and coral community structure in Hawaii*. *Coral Reefs* 1:71-81.
- Dollar, S. J. 1982. *Sand Island, Oahu: Assimilative capacity at a tropical ocean outfall*. In: *Proceedings, Marine Pollutions Sessions OCEANS '82*. Washington, D.C..
- Smith, S. V., S. J. Dollar, plus 6 others. 1987. *Stoichiometry of C, N, P and Si Fluxes in a temperate-climate embayment*. *Journal of Marine Research* 45:427-460.
- Smith, S. V., and S. J. Dollar, 1987. *Response of benthic ecosystems to deep ocean outfalls in Hawaii: a nutrient cycling approach to biological impact assessment and monitoring*. EPA Report No. EPA/600/3-87/006 ERLN-NX02.
- Grigg, R. W., and S. J. Dollar, 1990. *Natural and anthropogenic disturbance on coral reefs*. In *Coral reefs: ecosystems of the world* 25. Z. Dubinski (ed.) Elsevier Science Publishers, Amsterdam.
- Dollar, S. J. 1991. *An assessment of nonpoint source pollution of the marine environment off Kaanapali, Maui, Hawaii*. Tech. Rpt. prepared for Hawaii State Dept. of Health.

- Dollar, S. J. and 4 others. *Annual cycle of benthic fluxes in Tomales Bay, California, and the contribution to net ecosystem metabolism*. 1991. *Marine Ecology Progress Series* 79:115-125.
- Smith, S. V., J. T. Hollibaugh, S. J. Dollar, S. Vink. 1991. *Tomales Bay net metabolism: nonconservative C-N-P stoichiometry and ecosystem heterotrophy at the land-sea interface*. *Estuarine, Coastal and Shelf Science* 33:223-257.
- Miles, C. J., Leong G. and S. Dollar. 1992. *Pesticides in marine sediments associated with golf course runoff*. *Bull. Environ. Contam. Toxicol.* 49:179-185.
- Dollar, S. J. and M. J. Atkinson. 1992. *Effects of nutrient subsidies to nearshore marine systems off the west coast of the Island of Hawaii*. *Estuarine, Coastal and Shelf Science* . 35:409-424.
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- Dollar, S. J. and R. E. Brock. 1996. *Implementation of a water quality monitoring program on the west coast of the Island of Hawaii in support of a proposed amendment to State water quality standards*. Tech. Report for Dept. of Health, Environmental Planning Office.
- Dollar, S. J. and C. Andrews. 1997. *Algal blooms off West Maui: Assessing causal linkages between land and the coastal ocean*. Report to: NOAA Coastal Oceans Program Office.
- DeCarlo, E. H. and S. J. Dollar, 1997. *Assessment of suspended solids and particulate nutrient loading to surface runoff and the coastal ocean in the Honokawai drainage basin, Lahaina District, Maui, HI*. Report to State of Hawaii Department of Health.
- Meesters, E.H., Bak, R.P.M, Westmacott, S., Ridgley, M. and S. Dollar. 1998. *A fuzzy logic model to predict coral reef development under nutrient and sediment stress*. *Conservation Biology*. 12:956-965.
- Ruitenbeek, J., Ridgley, M., Dollar, S. and Huber, R. (1999). *Optimization of economic policies and investment projects using a fuzzy logic based cost-effectiveness model of coral reef quality: empirical results for Montego Bay, Jamaica*. *Coral Reefs*. 18:381-392.

Dollar, S. J., M.J. Atkinson, S. C. Atkinson. 1999. *Investigations on the relation between cesspool nutrients and abundance of Hypnea musciformis, West Maui, Hawaii*. Report to State of Hawaii Department of Health.

Dollar, S. J. and R. W. Grigg. 2004. *Anthropogenic and natural stresses on selected coral reefs in Hawaii: A multidecade synthesis of impact and recovery*. Pac. Sci. 58, no. 2:281-304.

PAPERS PRESENTED AT SYMPOSIA

Dollar, S. J. 1980. *Ecological response of benthic communities to relaxation of sewage stress off Sand Island, Oahu*. Environmental Survey Techniques for Coastal Water Assessment Conference, Honolulu, Hawaii.

Dollar, S. J. 1981. *Wave stress and coral community structure in Hawaii*. IV International Coral Reef Symposium, Manila, Philippines.

Dollar, S. J. 1982. *Sand Island, Oahu - Assimilative capacity at a tropical ocean outfall*. OCEANS '82, Washington, D.C.

Dollar, S. J. 1988. *Effects of deep ocean sewage discharges on benthic biogeochemical fluxes in Hawaii*. Ocean Sciences Meeting, ASLO/AGU, New Orleans, LA.

Smith, S. V., J. T. Hollibaugh, and S. J. Dollar. 1988. *Net heterotrophy in Tomales Bay, California*. Ocean Sciences Meeting, ASLO/AGU, New Orleans, LA.

Dollar, S. J. 1989. *Annual cycle of nutrient exchange in Tomales Bay, California; A "top-down" reconciliation of system-level and component fluxes*. Ocean Sciences Meeting, ASLO/AGU, San Francisco, CA.

Dollar, S. J. 1990. *Environmental Impacts of Golf Courses to the Nearshore Marine Environment*. 25th Annual Convention. Hawaii Turfgrass Association.

Dollar, S. J. 1992. *Waste Disposal in Hawaii: four case studies of mitigated impact through engineering design*. Seventh Int. Coral Reef Symposium. Guam.

Grigg, R.W. and S.J. Dollar. 1993. *Doomsday ecology misapplied: alleged versus documented Impacts of a deep ocean sewage outfall in Hawaii*. Global Aspects of Coral Reefs, Health, Hazards, and History, University of Miami, Rosenstiel School of Marine and Atmospheric Science.

Dollar, S. J. 1997. *Algal blooms off West Maui: Assessing causal linkages between land and the coastal ocean*. Geological Society of America. Annual Mtg. Kona HI.

- Dollar, 2007. *Flux and Fate of Groundwater in West Hawaii*. Presented at Water Resources Research Center Symposium on Groundwater in Hawaii.
- Dollar, S. J. 2008. *The Ecological Significance of Fresh Water Discharge in Coastal Areas: Perspectives on Nutrient Subsidies From Groundwater to the Coastal Ocean in West Hawaii*. Presented at the Kona Water Roundtable.
- Hochberg, E.H and S. J. Dollar. 2011. A Coral Reef Habitat Index Developed from Satellite Multispectral Imagery and Lidar Data. Ocean Sciences Meeting AGU, Portland OR.

MARINE ENVIRONMENTAL REPORTS

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- Dollar, S. J. 1980. *Impacts of the nearshore marine community at Mahukona, Island of Hawaii*. Prepared for Belt, Collins & Assoc.
- Dollar, S. J. 1981. *Environmental impact assessment of nearshore marine community structure at Kohala, Hawaii, in the vicinity of the Kohala Makai development*. Prepared for Belt, Collins & Assoc.
- Dollar, S. J. 1983. *Preliminary assessment of the marine environment at prospective seawater Intake/outfall sites for the solid waste processing and resource recovery facility*. Prepared for the City and County of Honolulu.
- Dollar, S. J. 1983. *Preliminary assessment of the marine environment in the vicinity of Nunuku Inlet, Mauna Lani Resort, South Kohala, Hawaii*. Prepared for Mauna Lani Resort, Inc.
- Dollar, S. J. 1983. *Baseline assessment of the Marine environment and fishponds at the Mauna Lani Resort, south Kohala, Hawaii*. Prepared for Mauna Lani Resort, Inc.
- Dollar, S. J. 1984. *Marine biological impact assessment for the proposed Ford Island Causeway, Pearl Harbor, Hawaii*. Prepared for Belt, Collins and Associates.
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- Dollar, S. J. 1984. *Submersible investigations of the deep marine environment in the vicinity of French Frigate Shoals and Necker Island, Northwestern Hawaiian Island*. Prepared for the State of Hawaii, Dept. of Planning and Economic Development, and the U.S. Dept. of Interior Minerals Management Service.
- Dollar, S. J. 1985. *Environmental assessment of Hilo Bay: Marine biological community structure in the vicinity of the proposed Hilo sewage outfall extension*. Prepared for M & E Pacific, Inc.
- Dollar, S. J. 1985. *Baseline assessment of the offshore marine environment in the vicinity of Kaupulehu Developments, North Kona, Hawaii*. Prepared for Belt, Collins & Assoc.
- Dollar, S. J. 1986. *Effects to the marine ecosystem from beach construction at Makaiwa Bay, Mauna Lani Resort, South Kohala, Hawaii (Phase I)*. Prepared for Mauna Lani Resorts, Inc.
- Dollar, S. J. 1986. *Baseline assessment of the marine environment in the vicinity of the O'oma II Resort Development*. Prepared for Helber, Hastert, Van Horn and Kimura, Planners.
- Dollar, S. J. 1986. *Baseline assessment of the marine environment and anchialine ponds at Awake'e, North Kona, Hawaii*. Prepared for Belt, Collins & Assoc.
- Dollar, S. J. 1987. *Baseline assessment of the water chemistry of the Hilton Hawaiian Village Lagoon, Honolulu, Hawaii*. Prepared for Belt, Collins & Assoc.
- Dollar, S. J. 1987. *Effects to water quality and marine community structure from beach reconstruction at Makaiwa Bay, Mauna Lani Resort, South Kohala, Hawaii*. Prepared for Mauna Lani Resort, Inc.
- Marine Research Consultants. 1987. *A second baseline assessment of the marine environment in the vicinity of the South Kohala Resort, South Kohala, Hawaii*. Prepared for Belt, Collins & Assoc.
- Marine Research Consultants. 1987. *Baseline assessment of the marine and anchialine pond environments in the vicinity of the Hawaiian Riviera Resort, Ka'u, Hawaii*. Prepared for Belt, Collins & Assoc.
- Marine Research Consultants. 1987. *Marine environmental assessment of cooling water discharge and offshore diffuser construction associated with the addition of Unit 7, Kahe Generating Station, Hawaiian Electric Company*. Prepared for Belt, Collins & Assoc.

- Marine Research Consultants, 1987. *Baseline assessment of the marine environment at Waiulua Bay, South Kohala, Hawaii.* Prepared for Belt, Collins Assoc.
- Marine Research Consultants, 1988. *Baseline assessment of the marine environment in the vicinity of the Kohana-iki marina, North Kona, Hawaii.* Prepared for Engineering Concepts, Inc.
- Marine Research Consultants, 1988. *The effects of golf course irrigation and fertilization on nearshore marine waters off West Hawaii.* Prepared for Helber, Hastert and Kimura, Planners.
- Marine Research Consultants, 1988. *Baseline assessment of the marine environment offshore of the Kauai Lagoons golf course, Lihue, Kauai, Hawaii.* Prepared for the Belt, Collins & Associates.
- Marine Research Consultants, 1988. *Baseline assessment of the marine environment in the vicinity of the Ohbayashi Pupukea Recreational Development, Pupukea, Oahu, Hawaii.* Prepared for Group 70.
- Marine Research Consultants, 1988. *Marine environmental survey in the vicinity of the Waikane Golf Course, Oahu, Hawaii.* Prepared for Group 70.
- Marine Research Consultants, 1988. *Baseline assessment of the marine environment in the vicinity of the Kauai Electric Port Allen Generating Station, Port Allen, Kauai.* Prepared for Belt, Collins & Associates.
- Marine Research Consultants, 1989. *Effects of sugar mill waste discharge on reef coral community structure, Hamakua Coast, Island of Hawaii.* Prepared for Tetra Tech. Inc.
- Marine Research Consultants, 1989. *Baseline assessment of the marine environment in the area planned for shoreline improvement near the Sheraton Mirage Hotel, Princeville, Kauai.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1989. *An assessment of potential environmental impacts from the proposed Kohana'iki Marina; a comparative study of Honokohau Harbor, North Kona, Hawaii.* Prepared for Engineering Concepts, Inc.
- Marine Research Consultants, 1989. *Potential effects of golf course irrigation and fertilization on nearshore waters off Kohana'iki, North Kona, Hawaii.* Prepared for Helber Hastert and Kimura.
- Marine Research Consultants, 1989. *Baseline assessment of the marine environment to assess the effects of swimming lagoon and beach construction at the Azabu Kona Hotel site, North Kona, Hawaii.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1989. *Preliminary assessment of the potential effects to the marine environment from the proposed Kilauea golf course and country club, Kilauea, Kauai.* Prepared for F.B.D. Enterprises, USA.

- Marine Research Consultants, 1989. *Marine environmental baseline survey to assess the effects of extension of the runway at Kalaupapa Airport, Kalaupapa, Molokai, Hawaii.* Prepared for Edward K. Noda and Assoc.
- Marine Research Consultants, 1989. *Marine water quality monitoring program to assess the effects of Kapaanui Subdivision, North Kohala, Hawaii.* Prepared for R.H.J. Associates.
- Marine Research Consultants, 1989. *Marine environmental survey to assess the effects of drainage discharge from the Pikoiloa Cemetery.* Prepared for Group 70.
- Marine Research Consultants, 1989. *Preliminary assessment of the marine and pond environments in the vicinity of the proposed Mauna Lani Cove, South Kohala, Hawaii.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1989. *Marine environmental assessment of Pearl Harbor in the vicinity of Foxtrot 5 Pier.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1989. *Marine environmental survey to assess potential impacts from the proposed Kealakekua Ranch golf development, Kealakekua, Hawaii.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1989. *Marine environmental survey to assess potential impacts from the proposed Wailea golf courses, Wailea, Maui, Hawaii.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1989. *Results of the marine water quality monitoring program to assess the effects of the Plantation at Kapalua Golf Course, Kapalua, Maui.* Prepared for Kapalua Land Company.
- Marine Research Consultants, 1990. *Marine environmental survey to assess potential impacts from the proposed Waihe'e Golf Course, Waihe'e, Maui, Hawaii.* Prepared for Waihe'e Oceanfront, Inc.
- Marine Research Consultants, 1990. *Marine environmental baseline survey to assess the effects of drainage discharge from the Campbell Industrial Park Subdivision.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1990. *Environmental assessment of coral reef community structure at Honolua Bay, Maui, Hawaii.* Prepared for Maui Land and Pineapple Co. Inc.
- Marine Research Consultants, 1990. *Baseline assessment of the marine environment off West Molokai in the vicinity of the proposed Alpha, U.S.A., Inc. Development.* Prepared for Alpha U.S.A., Inc.

- Marine Research Consultants, 1990. *Waikiki Beach restoration projects: assessment of Coral Reef community structure at the site of sand replenishment, Waikiki, Oahu, Hawaii.* Prepared for O.I. Consultants, Inc.
- Marine Research Consultants, 1990. *An assessment of nearshore community structure at O'oma, North Kona, Hawaii.* Prepared for Helbert, Hastert and Kimura, Planners.
- Marine Research Consultants, 1990. *Baseline assessment of the marine and anchialine pond environments at Awake'e, North Kona, Hawaii.* Prepared for Group 70, Ltd.
- Marine Research Consultants, 1991. *Baseline assessment of the marine environment for the Maui Electric Siting Study.* Prepared for Black & Veatch, Kansas City, MO.
- Marine Research Consultants, 1991. *Baseline assessment of the marine environment in the vicinity of the Hapuna Beach Recreational Area, South Kohala, Hawaii.* Prepared for Warren Harrison Associates.
- Marine Research Consultants, 1991. *Baseline assessment of the marine environment in the vicinity of the Queen Emma Foundation Lands, South Kohala, Hawaii.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1991. *Baseline assessment of the marine environment in the vicinity of Launiupoko, West Maui.* Prepared for Helbert, Hastert & Kimura, Planners.
- Marine Research Consultants, 1991. *Impact analysis for the marine environment in the vicinity of the Hamakua Land Use Program.* Prepared for Hamakua Sugar Company, Inc.
- Marine Research Consultants, 1992. *An assessment of water quality in Pearl Harbor, Hawaii, in the vicinity of the Fort Kamehameha Wastewater Treatment Plant.* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1992. *Marine environmental assessment in the vicinity of the U.S. Naval Station, Guam, Mariana Islands (Apra Harbor and Tipalao Bay).* Prepared for Belt, Collins & Assoc.
- Marine Research Consultants, 1993. *Baseline assessment of the nearshore marine environment of Kaneohe Bay in the vicinity of the airfield pavement repairs, Kaneohe Marine Corps Air Station, Oahu, Phase I.* Prepared for Helber, Hastert & Fee. Honolulu, HI.
- Marine Research Consultants, 1993. *Baseline assessment of the marine environment in the vicinity of the naval inactive ship maintenance facility, Pearl Harbor Operations, Waipio Point, Hawaii.* Prepared for Helber, Hastert & Fee, Planners, Honolulu, HI.

Marine Research Consultants, 1993. *Baseline marine assessment, Kaupulehu Lot 4, North Kona, Hawaii: water chemistry and marine biota*. Prepared for Belt Collins Hawaii, Honolulu, HI.

Marine Research Consultants, 1994. *Marine environmental assessment of the Ship Repair Facility Causeway, Apra Harbor, Guam*. Prepared for Belt Collins Hawaii, Honolulu HI.

Marine Research Consultants, 1994. *Marine environmental assessment of Waimanalo Bay, Hawaii in support of the Environmental Impact Statement for Bellows Air Force Station*. Prepared for Belt Collins Hawaii, Honolulu HI.

Marine Research Consultants, 1994. *An evaluation of lead in the marine environment resulting from launch activities at the Pacific Missile Range Facility, Kekaha, Kauai, Hawaii*. Prepared for Belt Collins Hawaii, Honolulu HI.

Marine Research Consultants, 1994. *An evaluation of impact to beaches and associated marine communities from assault training exercises (Tandem Thrust) at Tinian, Commonwealth of the Northern Marianas Islands*. Prepared for Belt Collins Hawaii, Honolulu HI.

Marine Research Consultants, 1994. *Marine wildlife hazard assessment: Naval Air Facility, Midway, Sand and Eastern Islands, Midway Atoll*. Prepared for Helber Hastert & Fee, Honolulu, HI.

Marine Research Consultants, 1994. *Proposal development for a least cost solution model for impacts to coral reefs*. Prepared for the World Bank/IFC/M.I.G.A., Washington D.C.

Marine Research Consultants, 1995. *Assessment of water quality and marine community structure in the vicinity of the Advanced Seal Delivery System (ASDS) at Ford Island, Pearl Harbor, Hawaii*. Prepared for Helber Hastert & Fee. Honolulu, HI.

Marine Research Consultants, 1995. *Baseline assessment of water quality and evaluation of potential impacts to the marine environment in the vicinity of Princeville, Phase II, Princeville, Kauai, HI*. Prepared for Group 70 International. Honolulu, HI.

Marine Research Consultants, 1995. *Assessment of water quality and marine community structure in the vicinity of Kawaihae Harbor, Hawaii; Kawaihae Co-Generation Facility*. Prepared for Tom Nance Water Resource Engineering. Honolulu, HI.

Marine Research Consultants, 1995. *Laupahoehoe Harbor launch ramp repair; NPDES Permit Application Assessment of water quality and marine community structure*. Prepared for Chapman Consulting Services, Waikoloa, HI.

- Marine Research Consultants, 1996. *Assessment of the nearshore marine environment in the vicinity of the proposed fixed shallow water range at the Barking Sands Tactical Underwater Range (BARSTUR), Barking Sands, Kauai, Hawaii.* Prepared for Helber Hastert & Fee. Honolulu, HI.
- Marine Research Consultants, 1996. *An assessment of biological communities in the vicinity of the proposed Fort Kamehameha sewer outfall.* Prepared for Sea Engineering, Inc.
- Marine Research Consultants, 1996. *Assessment of water quality and marine community structure: Fort Kamehameha ocean outfall extension oceanographic study.* Prepared for Sea Engineering, Inc.
- Marine Research Consultants, 1997. *Assessment of the nearshore marine environment of Farallon de Medinilla, Marianas Environmental Impact Statement.* Prepared for Belt Collins Associates.
- Marine Research Consultants, 1997. *Assessment of water quality and marine community structure in the vicinity of the Voyager Submarines Hawaii Dive Site, Honolulu, HI.* Prepared for Voyager Submarines Hawaii.
- Marine Research Consultants, 1997. *Assessment of water quality and marine community structure in the vicinity of the proposed SEAL Delivery Team One Facilities at Pearl Harbor Peninsula, Pearl Harbor, HI.* Prepared for Helber Hastert & Fee.
- Marine Research Consultants, 1997. *Assessment of potential impacts to water quality and marine community structure from effluent disposal, Lihue Wastewater Treatment Plant, Lihue, Kauai, HI.* Prepared for Tom Nance Water Resource Engineering.
- Marine Research Consultants, 1998. *Investigation of the marine environment in the vicinity of the Koko Head Regional Park and Nature Preserve, East Honolulu, Island of Oahu.* Prepared for Group 70, International.
- Marine Research Consultants, 1998. *Assessment of impacts to water quality and marine community structure from the proposed East Maui Development Plan, Phase 1.* Prepared for Tom Nance Water Resource Engineering.
- Marine Research Consultants, 1998. *Marine environmental assessment, Oneloa Master Plan Development, Puna, Hawaii.* Prepared for O & A International Corp.
- Marine Research Consultants, 1998. *Assessment of potential effects to the marine environment along the Kualapuu-Manawainui shoreline of Molokai, Hawaii, resulting from water use by Kukui Molokai.* Prepared for McCorriston Miho Miller Mukai.
- Marine Research Consultants, 1998. *Marine environmental assessment, Pua'ena Eco-camp, Pua'ena Point, Kawailoa, Hawaii.* Prepared for Helber, Haster and Fee.

- Marine Research Consultants, 1999. *Marine environmental assessment, Kapalawai Master Plan, Kapalawai, Kauai, Hawaii*. Prepared for Helber, Haster and Fee.
- Marine Research Consultants, 1999. *Marine Environmental Assessment. Kaunalapau Harbor Breakwater Modifications, Island of Lanai, Hawaii*. Prepared for Sea Engineering, Inc.
- Marine Research Consultants, 2000. *Marine Biological Resources: Report of Survey of Site OT10 and Hazardous Substances Sites; Phase 1 EE/CA, Wake Island Airfield, Wake Atoll*. Prepared for URS Corporation.
- Marine Research Consultants, 2000. *An Integrated Natural Resources Management Plan (INRMP) for the Pacific Missile Range Facility (PMRF), Barking Sands, Kauai, Hawaii*. Prepared for Belt Collins Hawaii.
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- Marine Research Consultants, 2000. *An Assessment of Potential Effects to the Marine and Pond Environments in the Vicinity of the Kaloko-Honokohau Business Park, North Kona, Hawaii*. Prepared for Lanihau Partners.
- Marine Research Consultants, 2000. *An Assessment of Impacts to Water Quality from the Proposed Golf Course in the State of Aimiliik, Babeldaob Island, Republic of Palau*. Prepared for Tom Nance Water Resource Engineering.
- Marine Research Consultants, 2000. *An Assessment of Potential Effects to the Marine and Pond Environments in the Vicinity of the Kaloko Industrial Park, Phases III and IV, North Kona, Hawaii*. Prepared for Wilson-Okamoto & Associates.
- Marine Research Consultants, 2000. *Assessment of the Impact to Water Quality and Marine Community Structure; Lihue Airport Expansion, Lihue, Kauai, Hawaii*. Prepared for Wilson-Okamoto & Associates.
- Marine Research Consultants, 2000. *Marine Environmental Assessment of Ford Island, Pearl Harbor, Hawaii in support of Programmatic Environmental Impact Statement for Development of Ford Island, Pearl, Harbor, Hawaii*. Prepared for Belt Collins Hawaii.
- Marine Research Consultants, 2001. *Kalealoa Barbers Point Harbor Modifications: Green Sea Turtle Monitoring Program*. Prepared for State of Hawaii Department of Transportation, Harbors Division.
- Marine Research Consultants, 2002. *Wave Energy Technology (WET) Marine Corps Base Hawaii, Marine Environmental Assessment*. Prepared for Belt Collins Hawaii.

- Marine Research Consultants, 2002. Inner Apra Harbor Maintenance Dredging Rapid Ecological Assessment. U.S. Naval Station, Guam. Prepared for Belt Collins Hawaii.
- Marine Research Consultants. Fee, Planners 2004. An assessment of reef coral community structure in the entrance channel of inner Apra Harbor, Apra Harbor, Guam. MILCON P-431. Prepared for Helber Hastert & Honolulu HI.
- Marine Research Consultants, 2004. An assessment of water and sediment chemistry in the Hilton Lagoon, Hilton Hawaiian Village. Prepared for: Planning Solutions. Honolulu, HI.
- Marine Research Consultants, 2004. Marine Environmental Assessment of Honokohau Bay, Maui, Hawaii. Prepared for SWCA Environmental Consultants, Honolulu, HI.
- Marine Research Consultants. 2004. Baseline assessment of Marine Water Chemistry, Kawaihae Deep Draft Harbor, Kawaihae, South Kohala, Hawaii. Prepared for Group 70 International. Honolulu, HI.
- Marine Research Consultants, 2004. Sediment testing of dredged materials; Kawaihae Deep Draft Harbor, Kawaihae, South Kohala, Hawaii. Prepared for Group 70 International. Honolulu, HI.
- Marine Research Consultants. 2004. Pacific Ocean Ventures: Assessment of ocean water chemistry. Prepared for: Pacific Ocean Ventures, Honolulu, HI.
- Marine Research Consultatnts. 2004. Assessment of Seawater Quality for the proposed NOAA Honolulu Consolidated Project (NHCP). Prepared for Architects Pacific, Inc. Honolulu, HI.
- Marine Research Consultants. 2004. Evaluation of literature review and identification of gaps for marine natural resources - U.S. Navy Lands offshore Guam, Marianas. Prepared for Helber, Hastert & Fee Planners, Honolulu, HI.
- Marine Research Consultants. 2005. Marine Resource Assessment in the Entrance Channel of Inner Apra Harbor, Apra Harbor, Guam. Prepared for Helber Hastert & Fee, Planners. Honolulu, HI.
- Marine Research Consultants. 2005. Reconnaissance Survey of the Marine Environment of Outer Apra Harbor, Guam; Characterization of Benthic Habitats. Prepared for Helber, Hastert & Fee. Planners. Honolulu, HI.
- Marine Research Consultants. 2005. Reconnaissance Survey of the Marine Environment of Outer Apra Harbor, Guam; Baseline Assessment of Marine Water Chemistry. Prepared for Helber, Hastert & Fee. Planners. Honolulu, HI.
- Marine Research Consultants, 2005. Operational Impact Study; Kilo Wharf, Apra Harbor, Guam. Prepared for Helber, Hastert & Fee, Planners. Honolulu, HI.

- Marine Research Consultants, 2005. Marine turtle monitoring for the Kawaihae Deep Draft Harbor modifications project, Island of Hawaii. Prepared for State of Hawaii Department of Transportation, Harbors Division.
- Marine Research Consultants, 2005. Assessment of marine water quality in the vicinity of the Coconut Beach Resort Project, Waipouli, Kauai, Hawaii. Prepared for Coconut Beach Development LLC.
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- Marine Research Consultants. 2012. An Assessment of the marine biological community structure in the vicinity of the proposed Kapalama Container Terminal, Honolulu, Hawaii. Prepared for Belt Collins and Associates.
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MONITORING PROGRAMS

1984 - present. *Marine environmental impact assessment of the Hawaii Kai Ocean Sewage Outfall.* Prepared for Hawaii American Water Co. (NPDES permit requirement).

1990 - present. *Receiving water monitoring program and receiving water biological communities monitoring program for the Port Allen Generating Station, Eleele, Kauai, Hawaii.* Conducted for Kauai Island Utilities Cooperative (NPDES permit requirement).

1990 - 2004. *Marine environmental monitoring program at Honolua Bay, Maui, Hawaii.* Prepared for Maui Land and Pineapple Co., Inc.

1990 - present. *Marine environmental monitoring for the Ewa Marina (Ocean Pointe), Ewa, Oahu.* Prepared for Haseko Hawaii, Inc.

1990 - present. *Sea Turtle monitoring for the Ewa Marina (Ocean Pointe), Ewa, Oahu.* Prepared for Haseko Hawaii, Inc.

1993 - 2008†. *Water chemistry monitoring program for the Queen Liliuokalani Trust Keahuolu Lands.* Prepared for the Queen Liliuokalani Trust.

1994 - present. *Water quality and marine biota monitoring for Makena Resort, Makena Maui, Hawaii.* Prepared for Makena Resort Co. (LUC permit requirement).

1995 - 2007. *Marine Biota Monitoring for the Natural Energy Laboratory of Hawaii (NELH).*

1995 - 1996. *Marine Monitoring Program for Marine Corps Base Hawaii, Airfield Repairs.* Prepared for Kiewit Pacific.

1995 - 1997. *Marine Monitoring Program for Berthing Pier at the UNDERSEASURVPAC, Pearl Harbor, Hawaii.* Prepared for Dutra Construction.

- 1996 - present. *Chevron Hawaii water quality monitoring (NPDES permit requirement)*. Prepared for Chevron Products USA.
- 1996 – present. *Zone of Mixing Monitoring for Ocean Sewage Discharges on the Island of Hawaii*. Prepared for County of Hawaii.
- 1998 – 2007. *Groundwater monitoring for the Royal Kunia Golf Course*. Prepared for the Royal Kunia Country Club, Inc.
- 2001 - present. *Marine environmental monitoring program in the vicinity of the Agibusiness Development Corporation, Zone of Mixing, Kekaha, Kauai, Hawaii*. Prepared for ADC.
- 2003 – present. *Marine environmental monitoring program for Cates International Offshore Fish Farm*. Prepared for Cates International.
- 2003 – 2008. *Marine Monitoring Program for Repair Wharves K-12 and H-5, Pearl Harbor, Hawaii*. Prepared for Healy Tibbitts Builders Inc.
- 2005-present - *Marine Monitoring Program for Honua'ula Wailea 670, Wailea, Maui, HI*. Prepared for Wailea 670 Associates.
- 2006 – 2008. *Marine Monitoring Program for Wharf A-7, Pearl Harbor, Hawaii*. Prepared for Healy Tibbitts Builders Inc.
- 2007-present. *Marine Monitoring program for ZOM and ZID compliance, Fort Kamehameha Wastewater Disposal Facility, Pearl Harbor Hawaii*.
- 2008 – 2011. *Marine Monitoring Program for Submarine Drive-in Facility, Beckoning Point, Pearl Harbor, Hawaii*. Prepared for Healy Tibbitts Builders Inc.
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- 2011 – 2012. *Water Quality Monitoring Program for Waikiki Beach Maintenance Project*. Prepared for Healy Tibbitts Builders Inc.
- 2010-2012. *Comprehensive environmental monitoring program for the Lahaina Watershed Flood Control Project*. Prepared for U.S. Dept. of Agriculture, National Resources Conservation Service, Hawaii State Office.
- 2013-Present. *Water Quality Monitoring Program for Umauma Bridge Repairs Project*. Prepared for Hawaiian Dredging Co.

PROFESSIONAL SERVICE

1992-1997: Editorial Board, Coral Reefs, Journal of the international Society for Reef

Studies.

2002-present. Member: Regional Technical Assistance Group: National Nutrient Criteria Development, EPA Region IX.

2002-2003: Guest Lecturer – UH Geog 728, Research Seminar in Resource Management in Asia and the Pacific.

2003. Member: Water Quality Standards Technical Advisory Group, State of Hawaii Department of Health.

2003-present. Member: Status of Coral Reefs in Hawaii NOAA Panel.

2003. Guest Lecturer – UHM Undergraduate Honors Program.

2004. Proposal Reviewer, Hawaii Coral Reef Initiative.

2004-2005. Team Leader for Coastal Waters section. Revision of State of Hawaii Water Quality Standards, Dept. of Health, Office of Environmental Planning.

2004-present. Guest Lecturer, UH, Dept of Geography 765. Coastal Zone Management