

John S. Ramsey, P.E., M.C.E., B.S.

Senior Coastal Engineer and Principal, Applied Coastal Research and Engineering, Inc.

Areas of Expertise

- Coastal processes analysis
- Numerical modeling of estuarine hydrodynamics and water quality
- Numerical modeling of marsh systems and marsh restoration design
- Evaluation and design of coastal structures and beach nourishment
- Analysis of tidal inlet dynamics and sediment transport
- Geotechnical engineering and analysis

Education

1991 M.C.E. Civil (Coastal) Engineering, University of Delaware
1985 B.S. Civil and Environmental Engineering, Cornell University

Professional Registration

Professional Engineer (Civil), Commonwealth of Massachusetts

Employment History

1998-present Senior Coastal Engineer and Principal, Applied Coastal Research and Engineering, Inc., Mashpee, MA.
1991-1998 Coastal Engineer, Aubrey Consulting, Inc., East Falmouth, MA.
1988-1989 Geotechnical Engineer/Project Manager, GeoSystems, Inc., Sterling, VA.
1985-1988 Assistant Geotechnical Engineer, New York State Department of Transportation, Albany, NY.

Experience

Mr. Ramsey is a Senior Coastal Engineer at Applied Coastal Research and Engineering, Inc. (Applied Coastal) and has served as Project Manager and/or Principal Investigator for estuarine water quality/flushing studies, coastal embayment restoration projects, regional shoreline management plans, beach nourishment and coastal structure designs, geotechnical engineering and groundwater flow studies, hydrodynamic and sediment transport evaluations, and environmental studies required for permitting of coastal projects. He has authored over 60 reports, papers, and presentations in these areas of interest.

Since co-founding Applied Coastal in 1998, Mr. Ramsey has performed and provided technical oversight for projects involving coastal engineering services and numerical modeling of coastal processes. He has managed a broad range of projects including an inlet relocation project at Ellisville Harbor (Plymouth, MA), a salt pond restoration and jetty design for Oyster Pond (Falmouth, MA), analysis of wave climate to determine shore protection and wave attenuation needs for a series of ferry terminals (Bermuda), beach nourishment design and offshore sand source evaluation (Winthrop, MA), analysis and design of marsh restoration channels for a dredge disposal site (Poplar Island, MD), and several estuarine flushing/water quality studies for the Massachusetts Estuaries Project (e.g. Chatham's coastal embayments, Popponesset and Waquoit Bays in Mashpee, and Nauset Marsh in Orleans).

Since 2000, Mr. Ramsey has served as the coastal engineering consultant to the Massachusetts Coastal Zone Management (MCZM) office. In this role, he has provided coastal

engineering expertise associated with shore protection structures, sediment transport, and inlet stability. In addition, Mr. Ramsey has assisted MCZM with analysis and design guidance for offshore sand mining, beach nourishment and dune design, and wave-induced flood damage assessments. Recently, he was an invited speaker at the MCZM Offshore Sand Mining Conference, where he discussed beach nourishment design for shore protection. In addition, Mr. Ramsey was invited to speak about sediment transport modeling/analyses at the 2001 Annual Meeting for the Association of Coastal Engineers in Washington, DC.

Mr. Ramsey continues to develop state-of-the-art analysis techniques focused on the quantitative understanding of estuarine and littoral processes. He has developed numerical tidal circulation models and improved existing one-, two-, and three-dimensional hydrodynamic models. Mr. Ramsey has co-authored several papers related to littoral processes analysis and has employed innovative numerical methods to develop alternative solutions for complex coastal engineering problems. He is well-versed in modern analytical and numerical techniques for evaluating coastal processes.

Analysis of Coastal Processes and Coastal Engineering Design

Between 1998 and 2002, Mr. Ramsey evaluated a large beach erosion and rehabilitation project at Winthrop Beach in Massachusetts. This project involved numerical modeling of wave refraction and diffraction, sediment transport, and shoreline change. Results from these models were used to evaluate a series of beach management alternatives, including beach nourishment, groins, and breakwaters. Approximately 500,000 cubic yards of beach nourishment and modifications to an existing groin field have been proposed to enhance storm protection. An offshore sand/gravel borrow site was located approximately 8 miles offshore in Massachusetts Bay (NOMES Site I). The physical evaluation of this borrow site was performed in 2002 and 2003. Other recent beach nourishment projects include a proposed 300,000 cubic yard beach fill on Plymouth Long Beach utilizing an upland borrow site and a 25,000 cubic yard beach fill at Cockle Cove in Chatham.

In addition to typical shore protection projects, Mr. Ramsey also has been involved with the analysis and design of numerous tidal inlets. In late 2003, the Ellisville Harbor (Plymouth, MA) inlet channel was relocated to a more hydraulically efficient location. This inlet relocation project was used as an engineering alternative to “hard” coastal engineering structures. Mr. Ramsey was responsible for developing the engineering alternative, designing the relocated inlet and the “plug” for the existing inlet channel, as well as permitting and monitoring the project. At St. Lucie Inlet (Stuart, FL), on-going work includes development of the inlet sediment budget, as well as sand management planning relative to impoundment basin and flood shoal sediments.

Mr. Ramsey has a broad range of coastal engineering design experience. Examples of design projects include beach nourishment programs (Plymouth Long Beach, MA and Winthrop Beach, MA), revetment design with a re-curved cap to reduce storm wave overtopping (Plymouth, MA), a weir structure and jetty reconfiguration design used to control saltwater inflow to a coastal pond (Oyster Pond, MA), and design of an enlarged culvert and jetty system to enhance tidal circulation (Little Pond, MA). Much of the design-oriented work includes quantitative evaluation of coastal processes to support engineering design (e.g. wave force and attenuation calculations for Bermuda fast ferry docking facilities, wave heights and overtopping computations needed for shore protection design of a dredged material disposal site in Chesapeake Bay, and scour analyses for the Rochester (NY) fast ferry terminal).

Numerical Modeling of Estuarine Processes

Since 1991, Mr. Ramsey has been involved with hydrodynamic analyses of estuary and tidal marsh systems. This work has consisted of one- and two-dimensional hydrodynamic and water quality modeling. Mr. Ramsey has designed field instrumentation programs, analyzed physical and water quality data, and performed modeling tasks for several studies including Delaware Bay (DE/NJ), Popponesset Bay (MA), West Falmouth Harbor (MA), Great/Green/Bournes Ponds (MA), Oregon Inlet (NC), St. Lucie Inlet (FL), Slocums and Little Rivers (MA), Mason Inlet (NC), Poplar Island (MD), and Chatham's coastal embayments (MA). The evaluation of Chatham's coastal embayments provided an in-depth analysis regarding the impacts of existing and future nitrogen loading on the trophic status of each estuary. This analysis formed the basis for long-term nitrogen management strategies within each estuary's watershed. Using previous water quality modeling expertise, Mr. Ramsey teamed with Dr. Brian Howes of the School of Marine Science and Technology at the University of Massachusetts, Dartmouth to develop a general estuarine nitrogen modeling approach for the Massachusetts DEP aimed at coastal watershed management. This methodology is now being utilized for nitrogen management by the Massachusetts Estuaries Project (MEP) in their evaluation of 89 coastal embayments in southeastern Massachusetts. Ongoing work includes the hydrodynamic and water quality modeling of numerous estuaries in southeastern Massachusetts as part of the MEP.

As a logical extension of estuarine/marsh hydrodynamic analyses, Mr. Ramsey has designed restoration efforts for salt ponds and tidal marsh systems. Two recent coastal pond restoration efforts include Oyster Pond, MA and Poplar Island, MD. Based on the results of more than a decade of water quality and ecological data, different management alternatives were designed for each of these projects. Saltwater inflow to Oyster Pond was reduced by a weir to stabilize the brackish environment within the Pond to between 2 and 4 ppt. This design optimized the salt content within the Pond, where future storm-induced overtopping would not cause severe ecological "shocks" to the system, yet the spawning habitat for the herring population could be preserved. Ongoing work at Poplar Island involves hydrodynamic and sediment transport modeling aimed at optimizing the marsh restoration design including tidal channel sizing and layout, marsh plain elevations, and inlet structures. Since Poplar Island is a man-made dredge disposal island, engineering of the restoration effort requires an in-depth understanding of parameters governing natural marshes in the region.

Geotechnical Engineering

Prior to working as a coastal engineer, Mr. Ramsey worked for four years in both the private and public sector as a geotechnical engineer. This work involved design of slope stabilization and soil improvement projects as well as construction oversight and management. He has practical experience in all aspects of geotechnical design including site investigations, design of soil boring plans, analysis of soil data, and design of soil retention structures and soil improvement projects. Geotechnical work at Applied Coastal has incorporated aspects of shore protection design, evaluation of soils and bank stability, erodability and consolidation of *in situ* sediments at marsh restoration sites, and evaluation of both offshore and upland borrow sites for beach nourishment.

Professional Societies

American Society of Civil Engineers

- Coastal Engineering Practice Committee

Association of Coastal Engineers

- Vice-President (2004-present)
- Director (2002-present)
- Chairman of the Continuing Education Committee

Florida Shore and Beach Preservation Association
American Shore & Beach Preservation Association

Selected Reports and Publications

Howes, B., Kelley, S., Ramsey, J., Samimy, R., Eichner, E., Schlezinger, D., and Wood, J., 2004. Linked Watershed-Embayment Model to Determine Critical Nitrogen Loading Thresholds for Popponesset Bay, Mashpee and Barnstable, Massachusetts. Commonwealth of Massachusetts, Department of Environmental Protection, Massachusetts Estuaries Project, 134 pp. + Executive Summary, 10 pp.

Ramsey, J.S., S.W. Kelley, and T. Ruthven, 2004. Plymouth Dike Extension and Nourishment, Draft Environmental Impact Report. Applied Coastal Research and Engineering, Inc., Mashpee, MA, for the Town of Plymouth. 55 pp. + Appendices.

Kelley, S.W., J.S. Ramsey, and M.R. Byrnes, 2004. Evaluating the physical effects of offshore sand dredging for beach nourishment. *Journal of Coastal Research*, Volume 20, No. 1, Coastal Education and Research Foundation, Inc., West Palm Beach, FL. pp. 89-100.

Kelley, S.W., J.S. Ramsey, 2004. Coastal Engineering Design Guidance Study for the Nahant Causeway Seawall, Nahant, Massachusetts. Applied Coastal Research and Engineering, Inc., Mashpee, MA, for Vollmer Associates and Massachusetts Department of Conservation and Recreation. 24 pp.

Ramsey, J.S. and T. Ruthven, 2003. Hydrodynamic Analysis of Hog Marsh and Poplar Island Cell 3D. Applied Coastal Research and Engineering, Inc., Mashpee, MA, for Gahagan & Bryant, Inc. 61 pp.

Kelley, S.W., J.S. Ramsey, 2003. Mason Inlet and Middle Sound System, New Hanover County, North Carolina: Hydrodynamic and Sediment Transport Analyses of Present Conditions and Dredging Alternatives. Applied Coastal Research and Engineering, Inc., Mashpee, MA, for Gahagan and Bryant Associates, Inc., and New Hanover County, NC. 44 pp.

Byrnes, M.R., R.M. Hammer, B.A. Vittor, S.W. Kelley, D.B. Snyder, J.M. Côté, J.S. Ramsey, T.D. Thibaut, N.W. Phillips, and J.D. Wood, 2003. Collection of Environmental Data within Sand Resource Areas Offshore North Carolina and the Environmental Implications of Sand Removal for Coastal and Beach Restoration. U.S. Department of the Interior, Minerals Management Service, Leasing Division, Sand and Gravel Unit, Herndon, VA. OCS Report MMS 2000-056, Volume I: Main Text 256 pp. + Volume II: Appendices 69 pp.

Ruthven, T., S.W. Kelley, J. M. Côté, and J.S. Ramsey, 2003. Hydrodynamic Analysis of Slocums River and Little River, Dartmouth, Massachusetts. Applied Coastal Research and Engineering, Inc., Mashpee, MA, for the Massachusetts Department of Environmental Protection. 45 pp.

Howes, B.L., R. Samimy, D. Schlezinger, S.W. Kelley, J.S. Ramsey, E. Eichner, 2003. Massachusetts Estuary Project: Linked Watershed-Embayment to Determine Critical Nitrogen

Loading Thresholds for Stage Harbor, Sulphur Springs, Taylors Pond, Bassing Harbor, and Muddy Creek, Chatham, Massachusetts. 246 pp.

Kelley, S.W., J.S. Ramsey 2002. Storm Surge and Wave Analysis for the Rockefeller Wildlife Refuge, Cameron and Vermillion Parishes, Louisiana. Technical Report. Applied Coastal Research and Engineering, Inc., Mashpee, MA, for Shiner Mosley and Associates, Inc. 41 pp.

Kelley, Sean W., John S. Ramsey, Mark R. Byrnes, 2001. "Numerical Modeling Evaluation of the Cumulative Physical Effects of Offshore Sand Dredging for Beach Nourishment." Applied Coastal Research and Engineering, Inc. report prepared for U.S. Department of the Interior Minerals Management Service, International Activities and Marine Minerals Division (INTERMAR), Herndon, VA. OCS Report MMS 2001-098, 95 pp. + 106 pp. appendices.

Kelley, Sean W., John S. Ramsey, Jessica L. Baker, 2001. "Coastal Engineering Feasibility Study for Barren Island, Maryland." Applied Coastal Research and Engineering, Inc. report prepared for Gahagan & Bryant Associates, Inc. 26 pp.

Howes, Brian L., John S. Ramsey, and Sean W. Kelley, 2001. "Nitrogen Modeling to Support Watershed Management: Comparison of Approaches and Sensitivity Analysis." School of Marine Science and Technology (University of Massachusetts Dartmouth) and Applied Coastal Research and Engineering, Inc. report prepared for the Massachusetts DEP and the U.S. Environmental Protection Agency. 94 pp.

Kelley, Sean W., John S. Ramsey, Jessica M. Côté, and Jon D. Wood, 2001. "Tidal Flushing Analyses of Coastal Embayments in Chatham, MA." Applied Coastal Research and Engineering, Inc. report prepared for the Town of Chatham. 114 pp.

Ramsey, John S., Jessica M. Côté, 2001. "Winthrop Shores Reservation Restoration Program, Borrow Site Screening Process and Assessment of Physical Site Characteristics for Winthrop and Nantasket Beaches." Applied Coastal Research and Engineering, Inc. report prepared for Parsons Brinckerhoff, the Metropolitan District Commission, and the MA Department of Environmental Management. 44 pp. + appendices.

Ramsey, John S., Brian L. Howes, Sean W. Kelley, and Feng Li, 2000. "Water Quality Analysis and Implications of Future Nitrogen Loading Management for Great, Green, and Bourne Ponds, Falmouth, Massachusetts." *Environment Cape Cod*, Volume 3, Number 1 (May 2000), Barnstable, MA, pp. 1-20.

Byrnes, M.R., R.M. Hammer, B.A. Vittor, J.S. Ramsey, D.B. Snyder, J.D. Wood, K.F. Bosma T.D. Thibaut, and N.W. Phillips, 1999. "Environmental Survey of Potential Sand Resource Sites: Offshore New Jersey." U.S. Department of Interior, Minerals Management Service, International Activities and Marine Minerals Division (INTERMAR), Herndon, VA. OCS Report MMS 2000-052, 380 pp. + 291 pp. appendices.

Byrnes, Mark R., John S. Ramsey, Richard M. Hammer, Elizabeth A. Wadman, 2000. "Study of Environmental Impacts of Offshore Sand and Gravel Mining." Applied Coastal Research and Engineering, Inc. and Continental Shelf Associates, Inc. report prepared for the Commonwealth of Massachusetts, Executive Office of Environmental Affairs, Coastal Zone Management. 29 pp.

Ramsey, John S. and Sean W. Kelley, 2000. "Shoreline Change Modeling and Conceptual Beach Nourishment Design for Winthrop Shores Reservation, Winthrop, MA." Applied Coastal Research and Engineering, Inc. report prepared for Parsons Brinckerhoff and the Metropolitan District Commission. 34 pp.

Wood, Jon D., John S. Ramsey, and Sean W. Kelley, 1999. "Two-Dimensional Hydrodynamic Modeling of Barnstable Harbor and Great Marsh, Barnstable, MA." Applied Coastal Research and Engineering, Inc. report prepared for the Town of Barnstable. 28 pp.

Ramsey, John S., Sean W. Kelley, and Brian L. Howes, 1999. "Water Quality Analysis of Great, Green, and Bourne Ponds, Falmouth, MA." Applied Coastal Research and Engineering, Inc. report prepared for the Town of Falmouth and Horsley & Witten, Inc. 41 pp.

Kelley, Sean W., John S. Ramsey, and Mark R. Byrnes, 1999. "Comparison of Numerical Spectral Wave Transformation Models for Evaluating the Physical Environmental Impacts of Offshore Sand Mining." Applied Coastal Research and Engineering, Inc. report prepared for U.S. Department of the Interior Minerals Management Service, International Activities and Marine Minerals Division (INTERMAR), 24 pp.

Ramsey, John S. and Feng Li, 1999. "Beach Nourishment Design for South Beach, Spectacle Island, MA." Applied Coastal Research and Engineering, Inc. report prepared for Weston & Sampson Engineers, Inc. 17 pp.

Byrnes, M.R., R.M. Hammer, B.A. Vittor, J.S. Ramsey, D.B. Snyder, K.F. Bosma, J.D. Wood, T.D. Thibaut, and N.W. Phillips, 1999. "Environmental Survey of Identified Sand Resource Areas Offshore Alabama: Volume I: Main Text, Volume II: Appendices." U.S. Department of Interior, Minerals Management Service, International Activities and Marine Minerals Division (INTERMAR), Herndon, VA. OCS Report MMS 99-0052, 326 pp. + 132 pp. appendices.

Kelley, Sean W., Jon D. Wood, and John S. Ramsey, 1999. "Analysis of Potential Impacts to Skaket Beach following Removal of the Seawall Structure." Applied Coastal Research and Engineering, Inc. report prepared for Bourne Consulting Engineering, Inc. 16 pp.

Ramsey, John S., Jon D. Wood, and Sean W. Kelley, 1999. "Two Dimensional Hydrodynamic Modeling of Great, Green, and Bourne Ponds, Falmouth, MA." Applied Coastal Research and Engineering, Inc. report prepared for the Town of Falmouth and Horsley & Witten, Inc. 41 pp.

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Ramsey, John S., 1997. "Hydrodynamic and Tidal Flushing Study of Pleasant Bay Estuary, MA." Aubrey Consulting, Inc. report prepared for the Pleasant Bay Steering Committee.

Ramsey, John S., Robert P. Hamilton, and Jon D. Wood, 1997. "Phase II: Sediment Transportation and Alternatives Analysis in Rhode Island Sound and Buzzards Bay from Acoaxet to the Entrance of Allen's Pond." Aubrey Consulting, Inc. report prepared for the Massachusetts Department of Environmental Management.

Bosma, Kirk F., John S. Ramsey, Robert P. Hamilton, 1997. "Draft Particle Tracking Analysis and Improvements to the Near-Field Boundary Condition for Salem and Hope Creek Nuclear Generating Stations." Aubrey Consulting, Inc. report prepared for Public Service Electric & Gas.

Wood, Jon D., Kirk F. Bosma, and John S. Ramsey, 1997. "Tidal Current Characteristics of the St. Lucie Inlet and Adjacent Waterways." Aubrey Consulting, Inc. report prepared for Coastal Technology, Inc.

Fields, M. Leslie and John S. Ramsey, 1996. "Phase I: Historical Evolution of the Shoreline within Rhode Island Sound and Buzzards Bay from Acoaxet to the Entrance of Allens Pond."

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Ramsey, John S. and Robert P. Hamilton, 1996. "Hot Spot Erosion Mitigation Using Artificial Headlands, Jupiter Island, Florida: Final Report." Aubrey Consulting, Inc. report prepared for the Town of Jupiter Island.

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Ramsey, John S., 1996. "Deer Island Western Shoreline Protection Evaluation." Aubrey Consulting, Inc. report prepared for Parsons Brinckerhoff.

Ramsey, John S. and Brian Howes, 1996. "Hydrodynamic Study and Weir Design Oyster Pond, MA." Aubrey Consulting, Inc. and Woods Hole Oceanographic Institution report prepared for the Town of Falmouth.

Wood, Jon D., John S. Ramsey, and Lee L. Weishar, 1996. "Beach Nourishment along Nantucket Sound: A Tale of Two Beaches." Proceedings of the 9th Annual National Conference on Beach Preservation Technology. Florida Shore and Beach Preservation Association.

Ramsey, John S., Brian Howes, and Newton Millham, 1995. "Hydrodynamic and Water Quality Study of West Falmouth Harbor, MA." Aubrey Consulting, Inc. and Woods Hole Oceanographic Institution report prepared for the Town of Falmouth.

Ramsey, John S., Robert P. Hamilton, Jr., and David G. Aubrey, 1995. "Analysis of Coastal Processes and Evaluation of Shore Protection Alternatives, Jupiter Island, Florida." Aubrey Consulting, Inc. report prepared for the Town of Jupiter Island.

Ramsey, John S., Robert P. Hamilton, Jr., and David G. Aubrey, 1995. "Nested Three-Dimensional Hydrodynamic Modeling of the Delaware Estuary." Proceedings of the 4th International Conference on Estuarine and Coastal Modeling, ASCE Waterway, Port, Coastal and Ocean Division.

Fields, M. Leslie, Robert P. Hamilton, and John S. Ramsey, 1995. "FEMA Draft FIS Report for Town of Greenwich, CT, Fairfield County." Aubrey Consulting, Inc. report prepared for the Federal Emergency Management Agency.

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Wood, Jon D., John S. Ramsey, and Brian Howes, 1995. "Draft Report, Hydrodynamic Evaluation of Proposed Culvert Design for Green Pond, Falmouth, MA." Aubrey Consulting, Inc. report prepared for the Massachusetts Highway Department.

Ramsey, John S., Robert P. Hamilton, Jon D. Wood, David G. Aubrey, Bruce A. Magnell, and Lee L. Weishar, 1995. "Numerical Circulation Model Implementation: Salem and Hope Creek Nuclear Generating Stations: Data Interpretation and Modeling Results." Aubrey Consulting, Inc. report prepared for Public Service Electric & Gas.

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Weishar, Lee L. and John S. Ramsey, 1994. "Hydrodynamic Study of Stage Harbor/Oyster Pond River." Aubrey Consulting, Inc. report prepared for Normandeau Associates.

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Aubrey, David G. and John S. Ramsey, 1992. "Numerical Modeling of Tidal Circulation through Oregon Inlet." Aubrey Consulting, Inc. report prepared for the U.S. Army Corps of Engineers.

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Fields, M. Leslie, David G. Aubrey, and John S. Ramsey, 1992. "Spectacle Island Tasks 1-8". Aubrey Consulting, Inc. report prepared for Bechtel/Parsons Brinckerhoff.

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