Environmental effects could be detected either within the nearshore zone or in the vicinity of the borrow sites.


This is an implementation manual developed jointly by the U.S. Army Corps of Engineers and the Environmental Protection Agency to comply with Section 103 of Public Law 92-532. The report develops recommendations for general approaches, dredge material sample and preparation, analysis procedures and estimation of initial mixing. The manual is not intended to provide a rigid framework for approaching projects but rather guidelines for designing a program.


An annotated literature survey is presented of 136 references related to environmental effects of dredged material disposal. In addition limited field monitoring was conducted at three dredge disposal sites. Sampling and analysis included influent and effluent water and analysis of plants for heavy metals. In most cases, there was little change in the heavy metal content as the effluent flowed from the inflow to the outflow of the disposal area. In general, the plants and seeds were found to contain concentrated amounts of heavy metals.


This report provides a framework for developing an efficient plan for quantitative sampling high-energy sand beach macroinvertebrates. Sufficient detail is provided to allow effective organization of the field effort including materials and numbers and qualifications of personnel required.