

*A Submerged Cultural Resources Remote Sensing
Survey of Bogue Inlet, Carteret County,
North Carolina*

Submitted to:

Coastal Planning & Engineering, Inc.
2481 N.W. Boca Raton Boulevard
Boca Raton, Florida 33431

Submitted by:

Tidewater Atlantic Research, Inc.
P. O. Box 2494
Washington, North Carolina 27889

24 July 2003

Abstract

The Town of Emerald Isle is planning to dredge a new channel at Bogue Inlet. In order to determine the proposed project's impact on potentially significant submerged cultural resources, the consulting engineer, Coastal Planning & Engineering [CPE] of Boca Raton, Florida contracted with Tidewater Atlantic Research, Inc., [TAR] of Washington, North Carolina to conduct a systematic proton precession magnetometer and side scan sonar survey of the proposed channel as well as a section of the existing channel. The proposed remote sensing survey was designed to locate and identify submerged cultural resources in the study areas and generate sufficient data to make an initial assessment of each target's significance and provide insight into the necessity for avoidance. Prior to the fieldwork, a program of historical and documentary research was conducted to provide a proper framework for submerged cultural resource assessment in the Bogue Inlet area. Field research was conducted on 1 January and 6 June 2003. Analysis of the remote sensing data revealed a total of three magnetic anomalies: one in Area 1 and two in Area 2. Of those targets, only the anomaly within Area 1 exhibited signature characteristics consistent with submerged cultural resources. However, because on-site disturbance will consist of the deposit of dredge spoil, it appears that there will be no adverse impacts to the material generating the target signature. The two targets within Area 2 appear to have been generated by single ferrous objects such as crab traps, small diameter pipe, small boat anchor or other modern debris. Based on the remote sensing survey no submerged cultural resources will be impacted by the proposed project. No further investigation is recommended in conjunction with the proposed project.

Table of Contents

	Page
Abstract.....	i
Table of Contents	ii
List of Figures	iii
Introduction	1
Project Location.....	1
Research Methodology	2
Literature and Historical Research	2
Remote Sensing Survey.....	4
Data Analysis.....	5
Historical Background	5
Previous Investigations.....	12
Geophysical Research	13
Description of Findings	13
Conclusions and Recommendations	19
Bibliography	20
Appendix A: Known Shipwrecks Located in the Vicinity of Bogue Inlet, North Carolina	

List of Figures

	Page
Figure 1. Project location map, Bogue Inlet survey areas.....	3
Figure 2. 1775 Mouzon Map depicting anchorage area within Bogue Inlet.	7
Figure 3. Illustration of the Swansboro built steamer <i>Prometheus</i>	9
Figure 4. Magnetic contour map, Area 1.	14
Figure 5. Magnetic contour map, Area 2.	15
Figure 6. Magnetic signature, 1-01.....	16
Figure 7. Magnetic signature, 2-01.....	17
Figure 8. Magnetic signature, 2-02.....	18