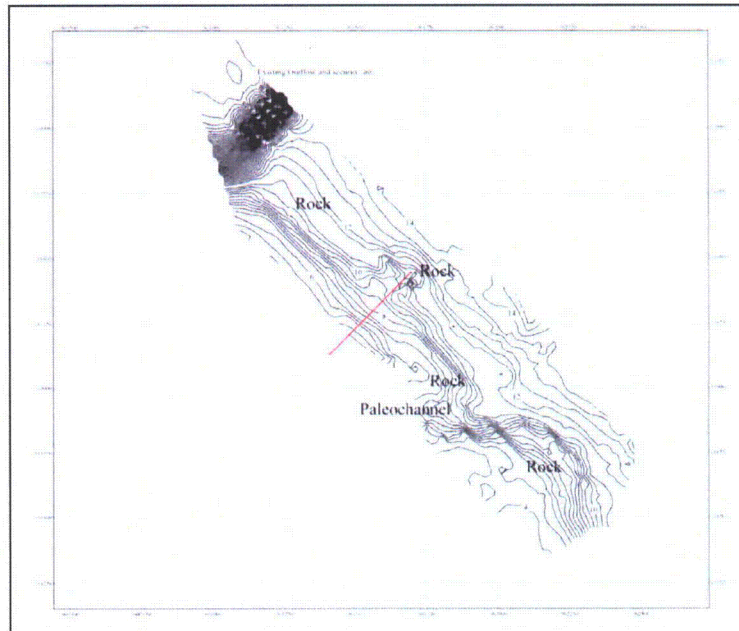


**SUBMERGED CULTURAL RESOURCES SURVEY
OF A PROPOSED OUTFALL PIPE,
CALVERT CLIFFS NUCLEAR POWER PLANT
UNIT 3 CONSTRUCTION,
CALVERT COUNTY, MARYLAND**



PREPARED FOR:

**MACTEC Federal Programs, Inc.
Herndon, Virginia**

PREPARED BY:

**Panamerican Consultants, Inc.
Memphis, Tennessee**

CONDUCTED UNDER:

**MACTEC Work Order No. 200806568
MACTEC Project No. 8093076565**

FINAL REPORT ♦ JUNE 2008

FINAL REPORT

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CALVERT COUNTY, MARYLAND**

Authored by:

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Prepared for:

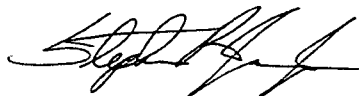
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560 Herndon Parkway, Suite 200
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Prepared by:

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**Stephen R. James, Jr., RPA
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JUNE 12, 2008

ABSTRACT

During March 2008, archaeologists with Panamerican Consultants, Inc. of Memphis, Tennessee conducted an intensive submerged cultural resources remote sensing survey of a proposed outflow pipeline at the Calvert Cliffs Nuclear Power Plant in Calvert County, Maryland, north of both Solomons Point and the mouth of Patuxent River. The project area that required survey is 650-x-1,400 feet and is centered on the proposed outfall pipeline. Performed under contract to MACTEC Federal Programs, Inc. of Herndon, Virginia, the investigation was comprised of a magnetometer, sidescan sonar, and subbottom profiler survey, the primary focus of which was to determine the presence or absence of anomalies representative of potentially significant submerged cultural resources eligible for listing on the National Register of Historic Places.

Results of the survey identified a total of 9 magnetic anomalies and 5 sidescan sonar targets. None of the magnetic anomalies or sidescan targets are considered potentially significant for the purposes of this investigation, and no further archaeological work is recommended. However, the reconstruction of the bay bottom with sidescan and subbottom revealed a paleolandscape setting with a paleochannel to the south of the proposed pipeline and an indurated hillock and large rock outcrop at the location of the proposed pipeline alignment. It is thought that the location of the rock outcrop will adversely effect pipeline construction. Because the area between the line of the current proposed pipeline and the paleochannel feature to the south and east of the pipeline has a potential for submerged prehistoric cultural resources, this area should be avoided if the pipeline alignment is to be moved. The optimum realignment area would be to the north and west of the current proposed route.

ACKNOWLEDGEMENTS

Panamerican Consultants, Inc. would like to thank the following people for their assistance during this project. First and foremost, we would like to acknowledge Mr. William Burch of MACTEC, Inc., for allowing us the opportunity to conduct this investigation. Tim Koller and the staff at the Plant deserve acknowledgement for ensuring the efficiency and safety of this project.

The crew deserves acknowledgment for their hard work, dedication, and attention to detail in conducting this project effectively and safely. Mr. Ron Caudill served as boat captain.

In-house Panamerican personnel who must be thanked, as well, include Kate Gilow, office manager, and Jessie Flanders, report editor. In closing and as always, Jim Duff must be thanked for his efforts in the field, especially for his expert boat handling during the running of survey lines.

Contents of the Report are withheld per Section 34 of the National Historic Preservation Act
And
Title 36 of the Code of Federal Regulations Part 800.11(c)