

SUPPLEMENTARY INFORMATION: The invention provides a means of immunization of humans with a peptide or denatured protein against enterotoxigenic *E. coli* (ETEC) strains of the CS4-CFA/I family. The antibodies raised by the peptides and proteins may be used as the basis for a cross-reactive ETEC vaccine as well as diagnostic agents to identify antigens of CS4-CFA/I bacteria.

Gregory D. Showalter,
Army Federal Register Liaison Officer.
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Corps of Engineers

Intent To Prepare a Draft Environmental Impact Statement (DEIS) for a Proposed Storm Damage Reduction and Beach Erosion Control Project on Absecon Island, Atlantic County, New Jersey

AGENCY: U.S. Army Corps of Engineers, DOD.

ACTION: Notice of intent.

SUMMARY: The action being taken is an evaluation of the alternatives for storm damage reduction and the control of further erosion on Absecon Island, New Jersey. The purpose of any consequent work would be to provide shore property protection and to stabilize the shoreline at the predetermined width.

FOR FURTHER INFORMATION CONTACT: Questions regarding the DEIS should be addressed to Ms. Beth Brandreth, (215) 656-6558, U.S. Army Corps of Engineers, CENAP-PL-E, Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390.

SUPPLEMENTARY INFORMATION:

1. *Proposed Action:* a. The draft document evaluates a study area approximately 8 miles in length, extending from Absecon Inlet to Great Egg Harbor Inlet. The study area encompasses Absecon Island, which contains the four communities of Atlantic City, Ventnor, Margate, and Longport. The beaches in these communities have been subject to erosion by storms, tidal inundation, and wave action. Three potential offshore sand borrow sources will be investigated in this study.

b. The authorities for the proposed project are the resolutions adopted by the Committee on Public Works and Transportation of the U.S. House of Representatives and the Committee on Environmental and Public Works of the U.S. Senate in December 1987.

2. *Alternatives:* In addition to the no action alternative, the alternatives considered for storm damage reduction and erosion control will fall into structural and non-structural categories. The structural measures to correct the beach erosion include bulkheads, seawalls, revetments, offshore breakwaters, groins, beach nourishment, perched beach, submerged reef with beachfill, and offshore submerged feeder berms. Non-structural measures include flood insurance, developmental regulations, and evacuation.

3. *Scoping:* a. Numerous studies and reports addressing beach erosion along the New Jersey Coast were conducted by the Corps of Engineers. The most recent study for this area is a Reconnaissance Report: Brigantine Inlet to Great Egg Harbor Inlet Reconnaissance Study (February 1992), which identified a number of problem areas where erosion was negatively impacting the adjacent shorelines. This study identified Absecon Island as one of the primary areas to be recommended for further study in the feasibility phase.

b. The scoping process is on-going and has involved preliminary coordination with Federal, State, and local agencies. Participation of the general public and other interested parties and organizations will be invited by means of a public notice.

c. The significant issues and concerns that have been identified include the impacts of the project on aquatic biota, water quality, intertidal habitat, shallow water habitat, and cultural resources.

4. *Availability:* It is estimated that the DEIS will be made available to the public in April 1996.

Gregory D. Showalter,
Army Federal Register Liaison Officer.
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Corps of Engineers

Intent To Prepare a Draft Environmental Impact Statement (DEIS) for Churchmans Marsh Reservoir/New Castle County Water Supply Project in New Castle County, Delaware

AGENCY: U.S. Army Corps of Engineers-Philadelphia District, DOD; Cooperating Agency: U.S. Environmental Protection Agency-Region III.

ACTION: Notice of intent.

SUMMARY: The proposed action evaluates the need for and the alternative methods of providing additional water supply capacity to meet present and projected water

demands in northern New Castle County, Delaware.

FOR FURTHER INFORMATION CONTACT: Questions about the proposed action and DEIS can be answered by Ms. Mary Marshall, U.S. Army Corps of Engineers-Environmental Resources Branch (CENAP-PL-E), Wanamaker Building, 100 Penn Square East, Philadelphia, Pennsylvania 19107-3390; phone: 215-656-6561, fax: 215-656-6543.

SUPPLEMENTARY INFORMATION:

1. Proposed project: The applicant, the Water Resources Agency for New Castle County has applied for a Department of the Army Permit to construct a 2 billion gallon, 250 acre off-stream reservoir in a freshwater tidal wetland, Churchmans Marsh. The proposed project site is located approximately 5 miles southwest of Wilmington and 7 miles east of Newark. It is bounded to the south by I-95, to the north by the White Clay Creek and to the east by the Christina River. Reservoir construction includes diking the perimeter of the site and excavating approximately nine million cubic yards of material to a depth of approximately -20 feet mean sea level. An intake weir will be constructed on the upstream side of the dike to allow flows to enter from the White Clay Creek.

2. Alternatives that will be addressed by the Draft Environmental Impact Statement include:

- a. The proposed project—Churchmans Marsh reservoir impoundment;
- b. Reservoir impoundment on Artesian Marsh (Churchmans South) site;
- c. Reservoir impoundments on tributaries to White Clay Creek and Red Clay Creek;
- d. Water transfer via existing and/or proposed pipelines;
- e. Aquifer recharge;
- f. Desalination of brackish surface water;
- g. Indirect waste water reuse; and
- h. No action.

3. The following paragraphs detail the scoping actions that have occurred to date:

a. The applicant has taken a number of steps to solicit input from the public including the development of a citizens advisory group. Numerous public information meetings have been held to discuss the status of the project and obtain public comments. In addition, numerous pre-application and pre-scoping meetings have been held with agency participation from the Delaware Department of natural Resources and Environmental Control, the U.S. Fish and Wildlife Service, the National Marine Fisheries Service, the U.S.