

# General Re-evaluation Report and Environmental Assessment Surf City, Onslow and Pender Counties, North Carolina Coastal Storm Risk Management Project



Appendix I: Section 404(b)(1) Analysis

Draft

May 2024

## **Surf City Coastal Storm Risk Management Project**

### Pender and Onslow County, North Carolina

Preliminary Evaluation of Section 404 (b) (1) Guidelines 40 CFR 230

This evaluation covers the placement of all fill material into waters and wetlands of the United States required for the maintenance of Surf City, Pender and Onslow County, North Carolina. The proposed project plans to place offshore sediment on the ocean beaches of Surf City. Please note, prior to any construction, the required Section 401 Water Quality Certificates from the NC Division of Water Quality will be obtained for the project and all conditions/restrictions will be complied with.

#### Section 404 Public Notice No. CESAW-ECP-PE

Section 404 Fubilit Notice No. CESAW-ECF-FE			
1.	Review of Compliance (230.10(a)-(d))	Preliminary <u>1</u> /	Final <u>2</u> /
	A review of the NEPA Document indicates that:		
	The discharge represents the least environmentally damaging practy associated with the discharge must have direct access or proximities purpose (if no, see section 2 and NEPA document);	•	•
b.	The activity does not:  1) violate applicable State water quality standards or effluent stan  2) jeopardize the existence of federally listed endangered or threa  3) violate requirements of any federally designated marine sancturesource and water quality certifying agencies);	tened species or their habitat; and	
	The activity will not cause or contribute to significant degradation in health, life stages of organisms dependent on the aquatic ecosystecreational, aesthetic, and economic values (if no, see section 2);	tem, ecosystem diversity, productiv	
d ecosy	Appropriate and practicable steps have been taken to minimize postem (if no, see section 5).	otential adverse impacts of the disc	harge on the aquatic YES NO

Proceed to Section 2

#### 2. Technical Evaluation Factors (Subparts C-F) N/A **Not Significant** Significant a. Physical and Chemical Characteristics of the Aquatic Ecosystem (Subpart C) Χ (1) Substrate impacts. (2) Suspended particulates/turbidity impacts Χ Χ (3) Water column impacts. (4) Alteration of current patterns and water circulation. Χ (5) Alteration of normal water fluctuations/hydroperiod. Χ (6) Alteration of salinity gradients. Χ b. Biological Characteristics of the Aquatic Ecosystem (Subpart D) (1) Effect on threatened/endangered Χ species and their habitat. Χ (2) Effect on the aquatic food web. Χ (3) Effect on other wildlife (mammals Χ birds, reptiles, and amphibians). c Special Aquatic Sites (Subpart E) (1) Sanctuaries and refuges. NA (2) Wetlands. NA (3) Mud flats. NA (4) Vegetated shallows. NA (5) Coral reefs. NA (6) Riffle and pool complexes. NA d. Human Use Characteristics (Subpart F) (1) Effects on municipal and private water supplies. NA (2) Recreational and commercial fisheries impacts Χ (3) Effects on water-related recreation. Χ Χ (4) Aesthetic impacts. (5) Effects on parks, national and historical monuments, national seashores, wilderness areas, research sites, and similar preserves. Χ

#### Proceed to Section 3

dredg	a. The following information has been considered in evaluating the biological availability of possi ed or fill material. (Check only those appropriate.)	ble contamina	nts in
	(1) Physical characteristics		$\boxtimes$
	(2) Hydrography in relation to known or anticipated sources of contaminants		
	(3) Results from previous testing of the material or similar material in the vicinity of the project		$\boxtimes$
	(4) Known, significant sources of persistent pesticides from land runoff or percolation		
	(5) Spill records for petroleum products or designated (Section 311 of CWA) hazardous substance	25	
	(6) Other public records of significant introduction of contaminants from industries, municipalities	es, or other sou	ırces 🛚
	(7) Known existence of substantial material deposits of substances which could be released in ha aquatic environment by man-induced discharge activities	rmful quantitio	es to the
	(8) Other sources (specify).		
	List appropriate references.		
_	b. An evaluation of the appropriate information in 3a above indicates that there is reason to bel e or fill material is not a carrier of contaminants, or that levels of contaminants are substantively stall sites and not likely to result in degradation of the disposal site.		

Evaluation of Dredged or Fill Material (Subpart G) 3/

Proceed to Section 4

3.

Disposal Site Determinations (230.11(f)).			
a. The following factors as appropriate, have been considered in evaluating the disposal site.			
(1) Depth of water at disposal site.			
(2) Current velocity, direction, and variability at disposal site	$\boxtimes$		
(3) Degree of turbulence.			
(4) Water column stratification			
(5) Discharge vessel speed and direction	$\boxtimes$		
(6) Rate of discharge	$\boxtimes$		
(7) Dredged material characteristics (constituents, amount and type of material, settling velocities).	$\boxtimes$		
(8) Number of discharges per unit of time.	$\boxtimes$		
(9) Other factors affecting rates and patterns of mixing (specify)			
List appropriate references.			
<ul> <li>b. An evaluation of the appropriate factors in 4a above indicates that the disposal site and/or size of mixing zone are acceptable.</li> </ul>		YES 🔀	NO <b>□</b> *
Actions to Minimize Adverse Effects (Subpart	<u>н)</u> .		
All appropriate and practicable steps have been through application of recommendations of 2:	30.70-230.77,		
to ensure minimal adverse effects of the prop discharge.	osea	YES 🔀	NO □*

Return to section 1 for final stage of compliance review.

4.

5.

#### 6. <u>Factual Determinations (230.11)</u>.

A review of appropriate information as identified in items 2-5 above indicates that there is minimal potential for short- or long-term environmental effects of the proposed discharge as related to:

a.	Physical substrate at the disposal site (review sections 2a, 3, 4, and 5).	YES 🔀	NO
b.	Water circulation, fluctuation, and salinity (review sections 2a, 3, 4, and 5).	YES 🖂	NO
c.	Suspended particulates/turbidity (review sections 2a, 3, 4, and 5).	YES 🖂	NO <b>□</b> *
d	Contaminant availability (review sections 2a, 3, and 4).	YES 🔀	NO <b>□</b> *
e.	Aquatic ecosystem structure and function (review sections 2b and c, 3, and 5).	YES 🔀	NO
f.	Disposal site (review sections 2, 4, and 5).	YES 🔀	NO
g.	Cumulative impact on the aquatic ecosystem.	YES 🔀	NO
h.	Secondary impacts on the aquatic ecosystem.	YES 🏻	NO □*

7.	<u>Findings</u> .
	a.The proposed disposal site for discharge of dredged or fill material complies with the Section 404(b)(1) guidelines. (box checked)
	b.The proposed disposal site for discharge of dredged or fill material complies with the Section 404(b)(1) guidelines with the inclusion of the following conditions: box not checked.
	c.The proposed disposal site for discharge of dredged or fill material does not comply with the Section 404(b)(1) guidelines for the following reasons(s) (no boxes checked):
	(1)There is a less damaging practicable alternative
	(3) The proposed discharge does not include all practicable and appropriate measures to minimize potential harm to the aquatic ecosystem
_	Date:
Е	Brad A. Morgan
	Colonel, U.S. Army
L	District Engineer
	egative, significant, or unknown response indicates that the permit application may not be in compliance with the Sectior b)(1) Guidelines.
evalı	egative responses to three or more of the compliance criteria at this stage indicate that the proposed projects <u>may</u> not be uated using this "short form procedure." Care should be used in assessing pertinent portions of the technical information ems 2 a-d, before completing the final review of compliance.
the g	egative response to one of the compliance criteria at this stage indicates that the proposed project does not comply with guidelines. If the economics of navigation and anchorage of Section 404(b)(2) are to be evaluated in the decision-making ess, the "short form evaluation process is inappropriate."
	the dredged or fill material cannot be excluded from individual testing, the "short-form" evaluation process is propriate.