



17. DIRECTIONS TO THE SITE

From Westbound I-90 entering Cleveland bear right onto Cleveland Memorial Shoreway (OH-2) Turn right onto West Boulevard then turn right onto Cliff Drive. Follow Cliff Drive to Perkins Beach parking area

18. Nature of Activity (Description of project, include all features)

The proposed project includes the removal of 5 existing concrete module groins at Perkins Beach and the construction of three new armor stone groins. The new groins will be spaced at approximately 300 feet on center and extend approximately 120 feet lakeward of the existing stone revetment crest at Perkins Beach. The groins will be constructed with 2 to 4-ton armor stone placed at a 1.5 horizontal to 1 vertical slope. The two west groins will have an 8-foot wide armor stone crest at an elevation of 576.0 feet IGLD 1985. The east groin will have an 8-foot wide concrete cap with 4 feet of armor stone on each side at a crest elevation of 578.0 feet IGLD 1985. The core of the groins will be constructed with 12 to 24-inch concrete rubble. The toe of the armor stone will be supported with 3 to 5 ton stone entrenched a minimum of 2 feet into shale bedrock.

The project also includes the repair of the existing sewer outfall at the east end of Perkins Beach, the removal of approximately 10 existing concrete modules at the west end of Edgewater Beach and the rehabilitation of the existing stone groin at Edgewater Beach. The Edgewater Beach groin will be repaired with a single layer of 2 to 4-ton armor stone placed at a 1.5 horizontal to 1 vertical slope to a crest elevation of 576.0 feet IGLD 1985. The crest of the structure will be capped with a 10-foot wide concrete walkway. The toe of the armor stone will be supported with 3 to 5 ton stone entrenched a minimum of 2 feet into shale bedrock.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

The existing groins at Perkins beach are in poor condition and present a potential hazard. The purpose of the project is to demolish and remove the existing groins and construct new groins to stabilize the beach. The existing groin at Edgewater Beach will also be repaired with new armor stone.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

To construct the new groins to stabilize the beach and repair the Edgewater Beach groin.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
Armor stone: 4,280 cy (3,520 below OHW),	Concrete rubble: 1,220 cy (1,160 below OHW),	Concrete: 275 cy (5 below OHW)

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres or Linear Feet The proposed structures will occupy a total of 26,034 square feet (17,758 square feet below OHW). The existing structures occupy a total of 23,370 square feet (18,197 square feet below OHW).

23. Description of Avoidance, Minimization, and Compensation (see instructions)

The new Perkins Beach groins have been designed to minimize the structures' footprint and impacts based on the intended function to stabilize the beach. The existing five groins are 112 linear feet, 186 linear feet, 218 linear feet, 223 linear feet and 190 linear feet long. The existing groins will be replaced with three groins that are about 80 feet long each. The slope of the armor stone has also been selected to be the minimum allowable for structural stability.

24. Is Any Portion of the Work Already Complete?  Yes  No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here please attach a supplement) (s):

a. Address- 10500 Edgewater Drive LLC, 10500 Edgewater Drive

City - Cleveland State - Ohio Zip - 44102

b. Address- Cleveland Regional Sewer, 5800 Whiskey Island Drive

City - Cleveland State - Ohio Zip - 44102

c. Address-

City - State - Zip -

d. Address-

City - State - Zip -

e. Address-

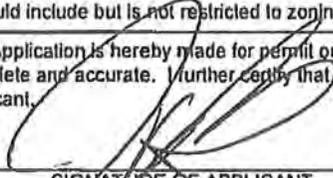
City - State - Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
ODNR	Shore Structure Permit		3/3/2016		

\* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

  
 SIGNATURE OF APPLICANT      3-7-16  
 DATE  
 Brian M. Zimmerman, Cleveland Metropolitan Park District

  
 SIGNATURE OF AGENT      3/14/16  
 DATE  
 John S. Malicardi, P.E.

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.