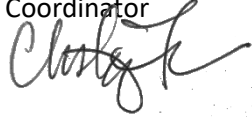




MEMORANDUM FOR: FILE

FROM: Christy Fellas, DWH Environmental Compliance Coordinator  
NOAA Restoration Center, Southeast Region 

DATE: July 10, 2019

SUBJECT: No Additional ESA or EFH Consultation Needed for Design Refinements  
to the Big Island Living Shoreline Component, Phase IV Early  
Restoration, Mississippi

Based on my review of project materials including design updates (see attached) and in coordination with representatives from NOAA's Protected Resource Division and Habitat Conservation Division in the South East Regional Office, the NOAA Restoration Center determined that design updates do not require re-initiation of consultation with NOAA.

The inner breakwater is likely to be built with a pre-fabricated wave attenuation device. While the device has openings on the side, it also has a sufficient opening on the top and therefore is not likely to entrap any protected species (see attachment for drawings).

Project elements have been refined within the previously considered action area and will not result in any discernible changes to the effects of the project to designated Essential Fish Habitat or species protected under the Endangered Species Act. The EFH and ESA consultations were concluded in 2015 and 2016 and can be found in the DWH administrative record. All BMPs and minimization measures in these consultations remain in effect for implementation.