

TO: **Dan Courtemanch**, Project Manager  
Dept. of Environmental Protection (DEP)  
Bureau of Land and Water Quality Control

FROM: Department of Marine Resources (DMR)

SUBJECT: REQUEST FOR PROJECT REVIEW

PROJECT: DEP Application #: L-24998-4D-B-N  
Applicant: Helen Huggins  
Location: Belfast (East Shore of Harbor)  
Type of Project: Rip-rap Shoreline Stabilization

The above proposed project has been carefully reviewed and considered by DMR personnel. The following are DMR's comments:

DMR personnel visited the site on September 6, 2011 at 1115 (low water approx.: 1230).

DMR understands that the applicant is proposing to install rip-rap stone along 120 ft. of shoreline to a height of 6 ft. Approximately 265 sq. ft. of intertidal below Spring High Tide (SHT) would be filled. A 6 inch diameter intercept drain would be installed along the top of the supratidal bank for approximately 90 ft. This would divert water southeast to the shore. Construction and material delivery would be from the top of the bank.

The site of the proposed rip-rap project is a moderate energy shore. The upland of the proposed project area contains a house ~ 65 ft. from the top of the supratidal bank. The supratidal is an ~ 8 ft. high soil bank with a mix of vegetation. Erosion is evident along the base of the bank apparently caused by wave action. The upper intertidal along the base of the bank is boulder, cobble and pieces of concrete sidewalk. Scattered through this area are patches of *Spartina patens*. Below this is an area of *Spartina alterniflora* 15 to 20 ft. wide along most of the shore to be rip-raped. Beyond this the intertidal is stone, cobble, boulder and mixed coarse/fine substrate with moderate to occasional rockweed cover.

This proposal should not cause any significant adverse impacts to navigation and recreation, or riparian access. There would be loss of patches of *Spartina patens* and potential impacts to *S. alterniflora* from decreased sediment transport from the upland and reflected wave energy from the rip-rap stone. Pieces of concrete and stone apparently used previously as wave protection should be removed from the upper intertidal and possibly incorporated into the proposed rip-rap.

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Brian M. Swan  
DMR Environmental Coordinator  
Date: September 7, 2011