

274 Big Alum Boat Notch Shoreline Project: DEP# CE 300-1186 Submission for

5.9.2024 Conservation Commission Meeting

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As requested by the Commission and DEP, I am submitting the Contractor's calculations for material removal.

I have conferred with EcoTech President, Paul J. McManus, LSP, SPWS, 102 Grove St, Worcester MA in person and via email. His opinion is that this project does NOT meet the thresholds for either a Wildlife Habitat study or 401 Water Quality Certification. (email submitted)

Previously submitted documents to the Commission include the 1923 DEP Sounding Map clearly delineating this Boat Notch; a previously and continuously disturbed area since that time.

This project will incorporate all sedimentation and erosion controls as required by the Commission. Work will occur during lake drawdown. Removal of the remaining dilapidated boat house structure and trash, trapped by the former stone walls, will restore the open water flow for aquatic species and enhance a minute, 392 sq ft area of the approx. 8,712,000 (200 acres) square foot resource area.

Respectfully,


Virginia (Ginne) Roscioli



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As requested for wetland File # 300-1186, this is the methodology for calculating the amount of material to be removed for the proposed boat notch cleaning.

- A. Actual boat notch size = 14' Wide X 28' long = 392 square feet
- B. Area that debris is to be removed is actually 14' wide X 22' long = 308 square feet
- C. Total depth of water from high water mark to lake bottom is 2'
- D. Debris to be removed appears to be sitting on large stones that have fallen in from the original boat notch walls and from what is visible, these stones are roughly 1 foot in size. These stones will be reset into and on the original boat notch walls in order to restore the boat notch to its original state, where appropriate.
- E. The debris to be removed is a floating mass that is resting on the original fallen boathouse structure which collects floating trash from the lake and leaves from surrounding trees which has created an organic bed for weeds, saplings and roots to grow and it blocks the free flow of lake water and passage of aquatic life such as fish and fowl. This debris varies from 1 to 2 feet in thickness.
- F. Debris calculation to be removed is as follows:
 - 1. 308 Square feet (total surface area of boat notch debris field) divided by 27 (cubic feet at 1' thick) = 11.4 cubic yards.
 - 2. Doubling the 11.4 cubic yards to 22.8 yards allows for unseen debris that may be in the notch, given that the water depth is at 2' at highwater mark, we feel we have allowed for a maximum of debris to be removed that will not be exceeded, and will restore the notch to its historical configuration.
 - 3. Stone that has fallen in the notch from actual existing notch walls appears to be minimal, given the area and amount of debris floating in the notch which we know to be 2' deep and the debris is roughly 1' thick leaves at most 11 yards of stone using the same calculation methods as noted above. These stones would be used to rebuild the notch wall where needed.

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Sent from Mail for Windows

From: Paul McManus
Sent: Friday, February 9, 2024 5:11 PM
To: ginros46@gmail.com
Subject: Big Alum Wild hab eval

I have been discussing this with Scott Jordan in my office. [REDACTED]

[REDACTED] the pertinent text of the regulations on this issue is below. [REDACTED] you are well below the 10% (of the lake) and 5,000 sf thresholds. [REDACTED]

(4) General Performance Standards.

(a) Where the presumption set forth in 310 CMR 10.56(3) is not overcome, any proposed work within Land under Water Bodies and Waterways shall not impair the following:

1. The water carrying capacity within the defined channel, which is provided by said land in conjunction with the banks;
2. Ground and surface water quality;
3. The capacity of said land to provide breeding habitat, escape cover and food for fisheries; and
4. The capacity of said land to provide important wildlife habitat functions.

A project or projects on a single lot, for which Notice(s) of intent is filed on or after November 1, 1987, that (cumulatively) alter(s) up to 10% or 5,000 square feet (whichever is less) of land in this resource area found to be significant to the protection of wildlife habitat, shall not be deemed to impair its capacity to provide important wildlife habitat functions. Additional alterations beyond the above threshold may be permitted if they will have no adverse effects on wildlife habitat, as determined by procedures established under 310 CMR 10.60.

Paul J. McManus, LSP, SPWS
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