

**Renovate Treatment**

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**From:** "Smagula, Amy" <Amy.Smagula@des.nh.gov>**To:** camptouchstone@yahoo.com

Hi Rolf,

Below is my summary of the NH project where we used Renovate OTF<sup>®</sup>. Please let me know if you have any questions or if you require additional information.

Amy

**Use of Renovate OTF<sup>®</sup> to Control Variable Milfoil in New Hampshire**

During the summer of 2008, a portion of Captains Pond in Salem, New Hampshire was treated using Renovate OTF<sup>®</sup> to target growths of variable milfoil (*Myriophyllum heterophyllum*), an invasive aquatic plant in New Hampshire.

Renovate was applied at a dose rate of 270 lbs/ac, or 2.5 ppm to 3.75 acres of this 90 acre pond in May 2008. This was the maximum application rate on the product label at the time. Aquatic Control Technology, Inc. out of Sutton, MA was the contractor for this project.

The littoral zone of Captains Pond is characterized by a mix of native and non-native (variable milfoil) plant growth. Native species include a mix of floating plants (yellow and white water-lilies, watershield, floating heart), emergent plants (arrow arum, bur-reed, grassy arrowhead, cattail, pipewort, swamp loosestrife, soft-stem rush, and pickerelweed), and submergent plants (bladderwort, pondweed, tapegrass, Robbins pondweed). Native plant communities are mixed around the entire pond.

While quantitative plant surveys were not conducted as part of this treatment, comparisons of general observations made prior to the treatment and on several post-treatment visits showed no substantial negative impacts to non-target species. Only yellow water-lily showed some small degree of yellowing on the leaves shortly after treatment, but rebounded quickly before the end of the growing season. All other native aquatic plants showed no sign of negative impacts as a result of contact with the herbicide, and in fact appeared to expand into areas that were previously documented to support primarily variable milfoil growth.

In terms of variable milfoil, Renovate OTF<sup>®</sup> provided very good control, with no variable milfoil present by 5 weeks post treatment, and no regrowth observed even late season in 2008 (the last survey was conducted in October 2008).

Continued monitoring will be conducted in summer 2009, but it appears evident that Renovate had good target-specific control on the variable milfoil, with no overall negative impacts to native aquatic species. Also, no impacts to fish or wildlife were observed during or after treatment.

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