



COMMONWEALTH OF MASSACHUSETTS 2006 SMART GROWTH AWARD

Town of Cohasset & Norfolk Ram Group, LLC Lily Pond & Peppermint Brook BMP Implementation Project

Cohasset is a South Shore community with a population of 7,261. Approximately 90 percent of the drinking water supply comes from the Lily Pond surface water treatment plant.

Lily Pond is a shallow 51 acre pond with a watershed of 1,603 acres. The pond is eutrophic. Flow to Lily Pond is supplied by Peppermint Brook and Brass Kettle Brook.

The reduction of nutrient loads and control of in-lake vegetation were identified as goals in the development of pond and water supply management strategy. Low Impact Development Techniques were instituted to treat roadway runoff prior to discharge to the pond.

The BMPs selected include Bioretention Cells (raingardens) and vegetated bioretention swales. A demonstration raingarden was constructed as an educational tool for the community.

Five raingardens and two vegetated bioretention swales were constructed in the road right-of-way. Twenty-six additional raingardens will be constructed.

The runoff filters through specially engineered soil. This natural process reduces pollutant and nutrient levels, reduces elevated temperatures of stormwater during summer months, and attenuates peak flows. The treated stormwater is collected by under-drains and returned to the stormwater system or infiltrated back into the ground.

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