



NEW ENGLAND ENVIRONMENTAL SERVICES

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2021 Monitoring Report

**Seaview Terrace
305-317 Rope Ferry Road
Waterford, Connecticut**

November 30, 2021

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Biofiltration Basins

The two biofiltration basins, restored wetland swale, and restored vegetated wetland buffer east of the wetlands and pond were monitored on November 24, 2021.

Southwestern Biofilter

The basin was cut earlier in the year. The dominant plant species in the basin are Curl Dock and Soft Rush. Other plant species include Reed Canary Grass, Bidens, Tussock Sedge, and Wool Grass. Phragmites is growing in the forebay as noted in the previous monitoring report. Mugwort (exotic invasive) is the dominant species growing on the side slopes and central berm, also noted in the previous monitoring report. The biofilter is fully vegetated and the side slopes are established. There is no sediment in the riprap spillway.

Northern Biofilter

The basin was cut earlier in the year. Soft Rush occupies approximately 85 percent of the basin. Other plant species include Curl Dock, Bidens, and Goldenrod. The basin has been mowed and was being hand raked the day of monitoring. Mugwort is the dominant plant species on the side bank of the biofilter. The riprap in the forebay was replaced and there was no silt sediment. In 2020, silt sediment was abundant in the forebay.

Restored Wetland Swale

The wetland swale has a leaf cover with very sparse vegetation. Reed Canary Grass is growing in the swale. The vegetation growing on the side slopes of the swale includes Multiflora Rose and Goldenrod. There is no recent sediment present in the swale. There is no erosion in the swale or the side slopes.

Restored Wetland Buffer

The majority of the wetland buffer has been mowed up to the stonewall. In 2020, Phragmites was the dominant plant species and formed a monoculture in the southern section. Other plant species in the wetland buffer include Mugwort, Goldenrod, and Japanese Honeysuckle. The three shrubs which were present in the wetland buffer died or were mowed.

Recommendations

1. The wetland buffer should not be mowed.



Southern view of the northern biofilter



Northern view of restored wetland swale



Southern view of the restored wetland swale



Northern view of northern biofilter



Replaced riprap in northern biofilter forebay



Southern view of southwestern biofilter



Northern view of southwestern biofilter



Mowed wetland buffer