

Stormwater Facility Operations and Maintenance Plan
Island Wharf Stormwater Improvements Project
Marion, MA

Date: May 13, 2005

The stormwater control system will be regularly inspected to ensure proper performance and to prevent deficiencies in the effectiveness of the systems due to sediment build-up, damage, or deterioration. The following operation and maintenance provisions will be provided:

Drainage Structures (catch basins, inlets, drain manholes, drain pipes): All structures will be inspected annually to monitor for proper operation, collection of litter or trash, and structural deterioration. The structures will be cleaned as necessary, and repaired when required.

Downstream Defender: The Downstream Defender will be inspected and maintained in accordance with manufacturer specifications.

Bioretention Systems: The bioretention systems will be inspected every four months (4 times total) for the first year of operation and bi-annually after the first year, and after major storm events. General maintenance of bioretention systems falls under landscaping practices. The planting soil bed will be monitored for proper pH, erosion, and aeration. Mulch will be replaced every two years to the original design depth, and ill-established, dead or severely diseased plants will be removed and replaced annually. Sediment build-up at the pavement line or curb cuts to the bioretention areas will be removed as needed, and the riprap overflow spillway will be repaired or replaced when necessary.

Routine Maintenance: Other routine maintenance will include removal of trash and litter from paved and perimeter areas, and annual street and parking lot sweeping after the spring thaw to avoid excessive accumulation of sediment in the drainage system. The pipes draining the project will be inspected annually for proper flow.