

HOW BIOHAVEN FLOATING ISLANDS ARE CONSTRUCTED:

Layers of plastic mesh, made of recycled Types 1 and 2 PET are joined together and injected with marine foam for initial bouyancy. The plastic mesh presents a vast survice are, which is essential to the bioremediation functions of BioHavens. Cylindrical planting pockets are cut out; the islands are then planted and launched out into the water, to be either anchored in place or remain free floating.

HOW BIOHAVEN FLOATING ISLANDS WORK:

The plastic mesh matrix presents a vast surface area, which is essential to the bioremediation functions of BioHavens. The plastic matrix is quickly colonized by free-floating bacteria, algae, and other microbes resulting in “Biofilm” that also establishes on the surface area of plant roots that have grown through the matrix into the water below. Suspended solids and algae are collected by the sticky Biofilm and are eaten by small aquatic invertebrates, including varius worms, insects and crustaceans exposing new surface area for continual microbial activity. BioHaven Floating Islands produce a perennial wetland effect, effective even in cold weather as circulation continues near the biomass of the floating islands, especially when provided with underlying fine-bubble aeration.

BIOHAVEN FLOATING ISLAND AS A HABITAT:

BioHaven Floating Islands are also used to create nesting, roosting and foraging habitats for birds. Below the water surface, the roots, biofilm and associated organisms provide shelter and food bases for many desirable organisms including game fish. The selection of specific plants or physical substrate can provide critical habitat for fishes, amphibians, reptiles, and birds that have special conservation needs.

BIOHAVEN FLOATING ISLANDS BIOREMEDIATE:

In areas like “natural” swimming pools, wastewater lagoons, reservoirs, and human-impacted estuaries, the BioHaven Floating Island can be used to phytoremediate excessive nutrients, pollutants, and pathogens; to provide emergent and riparian vegetation where it would otherwise be lacking; and to buffer the energy of tides, waves, and wake from ships. Thus, Biohaven Floating Islands are an important tool in the field of reconciliation Ecology.

FLOATING ISLANDS OPPORTUNITIES; Reservoirs, Agricultural Ponds, Degraded Estuaries and other Stream reaches, Estate Ponds and Golf Courses, Wild Gardens, including Natural Swimming Pools, Wastewater Treatment Facilities and Storm Water Basins, Other Municipal sites like Parks and zoos, Wineries and Vineyards, Habitat Restoration and Habitat Creation Sites, Mitigation Banking and Conservation Banking, Fish Hatcheries