

# MERYMAN ENVIRONMENTAL, INC.

WETLAND DESIGN ♦ WILDLIFE MANAGEMENT ♦ PERMITTING ♦ PHASE I, II & III

Established in 1974

## WHAT IS A STORMWATER POND?



A stormwater pond is part of the infrastructure for land use management. The pond provides for water quality protection as well as flood protection.

Why are aquatic plants important for stormwater ponds?

Native aquatic plants utilize excess nutrients, helping to maintain water quality.



Stormwater runoff is now considered the State's largest water pollution source.

- Algae blooms in lakes, ponds, and rivers are the result of poorly managed stormwater.
- Stormwater contributes nine times more oxygen demanding substances to water bodies than point sources (industrial effluent discharges).
- Stormwater contributes approximately 80-95% of the heavy metals that reach Florida waters.
- Nutrient loads from stormwater runoff are comparable to those in to those in secondarily treated sewage effluent discharges.
- Restoration programs have demonstrated stormwater pollution can be reversed.



*Development in Harmony  
with Nature*

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## STORM WATER POND MANAGEMENT

### *What is a pond or lake?*

There is no commonly accepted definition as to what distinguishes a lake from a pond. Ponds are usually man-made. What is commonly referred to as a pond in New England might be considered a lake in Florida. *Needless to say the best definition is any body of water larger than a puddle!*

### *What you need to control and why?*

Water features add interest and value to any landscape. However, just as you care for your turf, you also must manage your ponds to keep them in a healthy ecological condition. The two major problems that most commonly prevent you from achieving this condition are aquatic weeds and algae. When allowed to grow unchecked, they lower water quality and seriously detract from the appearance of your pond or lake. Vegetation is either considered beneficial or nuisance. Modest amounts of aquatic vegetation can be an asset to a lake. Partially submerged vegetation beautifies the shoreline and is beneficial to fish, providing hiding places for adult fish and protection for the fry.



The invasion of a lake by submerged aquatic vegetation is a natural process. It is more prevalent in shallow water because plants depend on sunlight. The clarity of the water and the intensity of sunlight, as well as the water temperature, determine the depth to which weeds will grow. Here in Florida we have the intense sunlight and the hot temperatures for over 9 months out of the year.

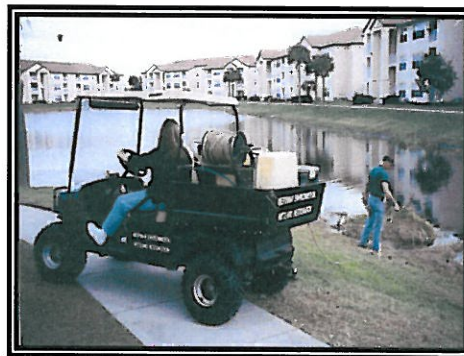
### *Development in Harmony with Nature*

Because of the size and depth of most lakes, aquatic weed problems usually occur only around the edges and in shallow waters. Most ponds (man-made) in Florida average about 7 - 8 feet in depth, along with the sunlight and high temperatures this allows the vegetation to grow unchecked. If you live in a new subdivision, your ponds were constructed to hold the storm water runoff from

the streets and houses. Usually these ponds are free of any vegetation when you move in, but within a years time, that pond can be overgrown with nuisance vegetation. For this reason, even though you do not see vegetation as a problem now, it will become a problem in the near future.

*Let us take a look at the types of plants causing problems in your lake and provide you with ways to manage these aquatic pests.*

The most common plant in ponds and lakes is Algae. Algae is a rudimentary plant that may be single-celled called phytoplankton or simple plants called filamentous algae, whose cells attach end to end to form long filaments. Unlike aquatic weeds, algae are much more simple organisms having no true leaves, roots or vascular system and reproduce by means of spores, cell division or fragmentation. This is the reason why it is never suggested to rake or pull algae out of a lake. No single aquatic herbicide is capable of controlling all kinds of weeds that are potential problems in the management of your pond. For this reason, it is important to identify the weeds before attempting to control them with a herbicide. Meryman's highly trained and state licensed staff will evaluate your pond and identify the various nuisance species to be controlled. Remember, most effective herbicides require a license to purchase.





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## Our Mission Statement: *to provide practical, affordable solutions to our clients environmental needs.*

**Meryman Environmental, Inc. (M.E.I.)** was founded in 1974 to provide professional, personalized environmental consulting services. We provide these services throughout the Continental United States in the following fields:

- ✓ Wetland Site Review and Delineation for County, State and Federal Agencies
- ✓ Wetland Mitigation, Permitting, Design, Construction and Monitoring
- ✓ Chemical and Bacteriological Drinking Water Laboratory Analysis
- ✓ Endangered and Threatened Species Surveys, Permitting and Relocation
- ✓ Stormwater Pond Management Per SWFWMD Requirements
- ✓ Phase I, II and III Environmental Site Assessments
- ✓ Commercial and Agricultural Contamination Assessment and Remediation
- ✓ Upland Habitat Assessment, Preservation and Restoration



10408 Bloomingdale Avenue  
Riverview, Florida 33578

**M.E.I.** serves clients in both the public and private sector with a keen awareness of the needs of business, as well as the necessity of environmental regulations. **M.E.I.** balances changing agency rules with client concerns for profit, planning and performance. From conception to completion, this pragmatic business approach satisfies the needs of the government and the client for the sensitive issues involved in environmental consultation.

Since our conception, we have provided individual attention to our clients needs. Our professional staff uses a common sense, practical approach to determine cost effective solutions that are accepted by the local, state and federal regulatory agencies.



629 S. Broad Street  
Brooksville, Florida 34601

**Meryman Environmental, Inc.'s** staff continues to build a tradition of supplying comprehensive environmental services to meet the critical priorities of the new millennium.

Like most citizens today, we are concerned about the environmental problems facing our planet. Meanwhile, governmental regulations are growing increasingly more stringent. That is why it is more important than ever to be able to rely upon our environmental consulting services for all your needs and to make us a part of your development team.

**We welcome the opportunity to present M.E.I. to you in greater detail.**

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