



Aqua-Barrier™

Water-Inflated Dams

**Quick to Install
Effective During the Project
Quick to Remove**

In construction time is money.

This is magnified with the added complexities of construction activities in and around waterways. Aqua-Barrier™ water-inflated dams offer the most rapidly installed and removed temporary water damming and diversion system available.

Inflate Aqua-Barriers™ rapidly with any available water source. Upon completion simply drain the barriers for quick removal. Get in quick. Get the job done right. Get out quick.

Environmental compliance is no longer an option.

Aqua-Barriers™ also meet or exceed the ever increasingly stringent local, state and federal water quality restrictions.

Engineered for Safe Operation.

Extensive engineering went into the design of Aqua-Barriers™. The result is a water control system that is safe, stable and effective. The patented internal baffle system provides the safest barrier system available.

LEASE OR PURCHASE

Projects come in all shapes and sizes.

Pipeline Installation/Repair



Staunton River, Brookneal, VA Pipeline Repair

600 linear feet of 6- and 7-ft barriers installed in 14 hours with virtually no adverse environmental impact.



Fox River, Burlington, WI Pipeline Installation
425 linear feet of 6-ft barriers installed in 11 hours.



Roanoke River, Roanoke, VA Sewer Line Installation
250 linear feet of 6-ft barriers installed in 11 hours.



Water-Inflated Dams

Shoreline Stabilization

Call 800-245-0199 today to see how we can save you **TIME** and **MONEY!**



Eagle Lake, TX. Retaining Wall Repair
150 linear feet of 5-ft barriers installed in 3 hours.



Elkhart, IN. Sea Wall Repair
350 linear feet of 3-ft barriers installed in 3 hours.

Bridge Construction/Repair



Middlefork River, Queens, WV Bridge Repair
150 linear feet of 5-ft barriers installed in 4 hours.



Maumee River, Miami, OH. Bridge Repair
200 linear feet of 6-ft barriers installed in 5 hours around individual bridge piers.

Other Projects

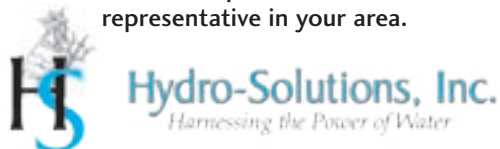


Dredging Project Lake Seminole, FL
1,500 linear feet of 5-, 6- and 7-ft barriers installed in 10 hours.



Shoreline Enhancement Elgin, IL Fox River
300 linear feet of 7-ft barriers installed in 7 hours.

Call **800/245-0199** today to find the name and location of the Aqua-Barrier™ manufacturer's representative in your area.



12777 Jones Road, Suite 465 • Houston, TX 77070



GSA # GS-07F-0543N

US Patent # 5865564

The Aqua-Barrier is a product of the Hydro-Solutions' family of water-inflated products. For information on our other products please visit our Web site at: www.hydrologicalsolutions.com.

FREE Aqua-Comp™ Analysis Software

This proprietary modeling program allows you to input the parameters of your project such as tube size, number of baffles, water depth, whether water is static or moving, the slope of the surface the barrier will rest upon, and the type of that surface. Aqua-Comp™ then mathematically simulates how the AquaBarrier™ will perform under the prescribed conditions, giving you the safety factor based on sliding.



You can easily see which Aqua-Barrier™ will meet your site requirements most effectively.

Ask your Aqua-Barrier™ representative how to receive your **FREE** copy of this powerful software.

Boat Ramp Construction



Lake of the Woods, Warroad, MN.
Boat Ramp Installation

300 linear feet of 7-ft barriers installed in 7 hours.



Wichita Falls, TX. Boat Ramp Installation
375 linear feet of 5-ft barriers installed in 5.5 hours.

Other Projects



Canal Repair Hoogeveen, Netherlands

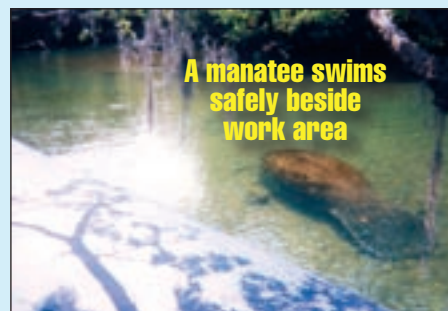
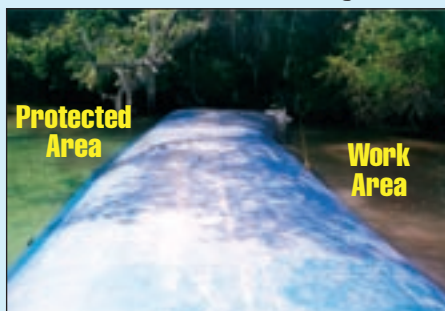
50 linear feet of an 8-ft barrier installed in 2 hours.



Kayak Course Installation Casper, WY N. Platt River

300 linear feet of 5-ft barriers installed in 8 hours.

Control sediment in environmentally sensitive areas



6-ft high barriers separate harmful worksite sediment emissions from sensitive aquatic wildlife.

Aqua-Barrier™ Stabilization Components

Freeboard

(amount of inflated barrier above water level)
A minimum of 25% freeboard is required in all Aqua-Barrier™ installations. Freeboard requirements may increase if the barrier is exposed to, or has the potential of being exposed to, high water velocities (3 ft/sec or greater), slick soil conditions or other relevant hydrostatic conditions.

Surface friction

Aqua-Barriers™ require surface friction to stabilize when exposed to uneven hydrostatic pressures. Barriers exposed to weak soils or slick soils may require additional freeboard.

The internal baffle system

The patented internal restraint baffle(s) lock into place when the barrier is exposed to greater hydrostatic pressure on one side.

Aqua-Barrier™ Accessories:

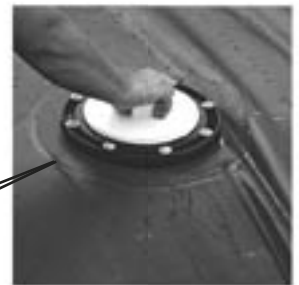
Fill Ports

Aqua-Barriers™ are equipped with 3- or 4-inch ID, industrial-grade, threaded fill ports. Fill ports are installed in pairs near each end of the barrier.



End Pipeloops

Pipeloops are fabricated on each end of the barrier to facilitate precise placement and rapid removal. Inserting a pipe through the loops allows you to maneuver the barriers with an elevated, heavy equipment arm.



Drain Ports

There are 8-inch ID drain ports on each end of the barrier. Additional drain ports are also located along both sides of the unit; the number and position vary depending upon barrier length.

Call 800-245-0199 today for more information.



Hydro-Solutions, Inc.
Providing sound dewatering solutions

9597 Jones Road, # 367 • Houston, Texas 77065
phone 281-807-0890 • fax 281-807-1218

Aqua-Barrier™ Standard Heights & Dimensions

Inflated Height (ft/m)	Layflat Width Empty (ft/m)	Layflat Width Inflated (ft/m)	Gallons per Linear Foot (L/m)	100 ft Section Weight (lbs/kg)	Maximum** Depth of Water (in/cm)
2/.61 (22 oz) (30 oz)	5 / 1.52	4 / 1.2	60 (227)	188 / 85 320 / 145	18 / 45.7
3/.91 (22 oz) (30 oz)	8.5 / 2.59	7 / 2.13	158 (598)	270 / 123 516 / 234	27 / 68.6
4/1.22 (22 oz) (30 oz)	12 / 3.65	10 / 3.05	256 (1136)	392 / 178 600 / 273	36 / 91.4
5 / 1.52 (30 oz)	15 / 4.57	12.5 / 3.81	390 (1775)	931 / 423	45 / 114.3
6 / 1.83 (30 oz)	18 / 5.48	15 / 4.57	564 (2555)	1098 / 498	54 / 137.2
7 / 2.13 (30 oz)	21 / 6.40	17.5 / 5.33	770 (3479)	1224 / 556	63 / 160.0
8 / 2.44 (30 oz)	24 / 7.32	20 / 6.1	1007 (3811)	1620 / 735	72 / 183.0

** This depth of water represents 75% of the height of a fully inflated Aqua-Barrier™. It is required that a minimum 25% freeboard capacity be maintained during all phases of a project. Excess slope and grade, soil composition, moving water, and related hydrological criteria may increase or decrease the ability of an Aqua-Barrier™ to perform as projected.

Aqua-Barrier™ Connection Requirements

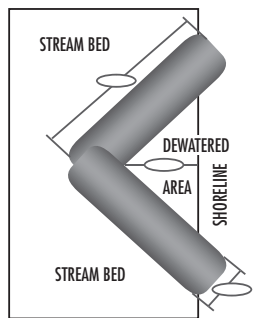
Each inflated Aqua-Barrier™ section is straight without the ability to bend. When joining Aqua-Barriers™, an overlapping technique is used. Simply place the barrier to be inflated on top of the end of the inflated barrier and begin the inflation process. The amount of overlap will be determined by barrier height.

See table at right.

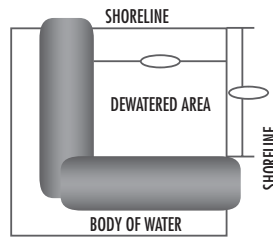
Aqua-Barrier Inflated Height (ft)	Overlap Length (ft)
2	3
3	4.5
4	6
5	7.5
6	9
7	10.5
8	12

Standard Aqua-Barrier™ Configurations

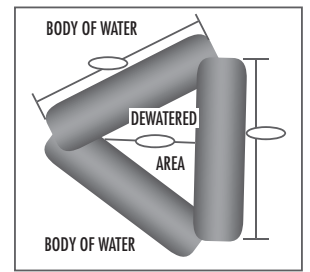
Aqua-Barriers™ can be used in a variety of configurations to meet your specific dewatering needs.



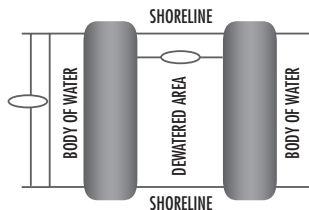
TEE PEE CONFIGURATION



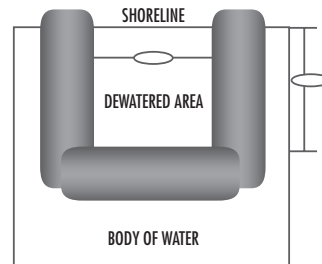
CORNER CONFIGURATION



BRIDGE PIER CONFIGURATION



IN-LINE PUMP AROUND CONFIGURATION



IN-LINE PARTIAL BLOCK CONFIGURATION

For more information, visit

www.hydrologicalsolutions.com