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POND SERVICES

- Pond and Lake Management
- Large Pond Design
- Pond Construction
- Pond Leak Repair
- Pond Restoration
- Dam Repair Contractor

CATEGORIES

- Pond Aeration
- Pond Sealer - Bentonite
- Pond Treatments
- Algae Control
- Pond Weed Control
- Pond Dye
- Floating Pond Fountains
- Fish & Waterfowl Feed
- Pond Stone
- Fishery Management
- Lake Management
- Surface Inlet Guards
- Koi Pond & Waterfall Supplies
- Catalog

POPULAR BRANDS

- Natural WaterScapes
- Vertex Water Features
- ATLANTIC
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- KASCO
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HOME / POND SERVICES

Pond Services

Natural WaterScapes provides a full range of Pond and Lake Services

Browse featured Projects

Click a category link below to learn more:

- Pond and Lake Management
- Pond Design
- Fisheries Management
- New Pond Construction
- Pond Restoration
- Pond Leak Repair
- Aquatic Weed Treatment
- Fountain and Aerator Installation
- Swim Ponds
- Large Waterfall Design-Construction



Natural WaterScapes Project Application

New Project Application Form

Name *

First Last

Address *

Street Address

Address Line 2

City State/Region/Province

Postal / Zip Code Country

Email *

Phone

Project Type *

New Pond or Lake Design/Construction
 Dredging and/or Restoration of Existing Pond
 Leak Repair
 Pond or Lake Expansion

Select all relevant choices

Pond or Lake Size

1.00

Size in Acres for existing pond or lake. (Planned size for new construction)

Project Budget *

Less than \$25,000
 \$25,001 to \$75,000
 \$75,001 to \$225,000
 \$225,001 to \$500,000

Select the budget category that most closely reflects your project budget

Project Description

Please list project goals, project size, start date, planned completion date, etc.

I would like to start this project: *

In the next 30 days
 Within 3 months
 In the next year
 I'm just researching and do not have a defined timeline

Select project timeline

Submit

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- POND LEAK REPAIR
- Pond Liner Installation
- Bentonite Pond Sealer

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HOME / POND SERVICES / POND LEAK REPAIR

Pond Leak Repair

Pond Leak Repair

Perhaps nothing is more frustrating than finally constructing the pond or lake of a lifetime only to find that it doesn't hold water. Just as frustrating are pond leak repairs and repair theories that do not hold water.

[Contact us for information on our Pond Leak Evaluation and Repair Planning.](#)

DIY Pond Leak Location and Repair

We focus our leak location and repair strategies in 2 main areas - 1) SYNTHETIC LINED BASINS from small garden ponds to multi-acre ponds and lakes. 2) NATURALLY LINED BASINS - can be excavated ponds or lakes with no dam embankment or a pond or lake constructed with a dam embankment.



How do you locate the pond leak?

This can be exceptionally simple or painfully difficult depending on the situation. Let's state the obvious and move on from there - look for the wet spots around the pond. A soil probe will allow you to find moisture below the surface. If you do not have access to a soil probe, a ditch shovel will work just fine.

Probe or Dig as deep as you can in the suspect area and examine the soil for moisture content. The best time to look for moist areas around the pond is after an extended dry period - preferably a week or more. If you find significant moisture, you are likely in the vicinity of the leak and can narrow your search. Pay attention to vegetation around the leaking pond. Lush green vegetation during extended dry periods can help you locate the pond leak as well.

Once you've narrowed the search or if you just can't narrow the search, allow the pond water surface to fall without replenishing the water until the water level stabilizes. Mark this level and investigate the pond around this elevation. For a synthetic liner pond, you have found the elevation of the pond leak, careful inspection of the liner at this elevation should allow you to find the leak. If you have an EPDM rubber liner (Firestone Pondgard or similar) with a small hole the repair is quite simple once you've found the leak. Purchase the EPDM Rubber Liner Repair Kit and apply per the instructions. If this is the only leak in your pond, you may refill and enjoy! Contact us for larger holes and we will assist you with the proper materials and techniques for the leak repair.

Earth Bottom Pond Leak Location

If the pond is a natural bottom or clay lined pond, the search becomes a little more complex. As with the geomembrane lined pond, it is worth examining the pond at the elevation where the water level stabilized. There are 2 reasons that the water level may have stabilized at this level. 1) this is the elevation of the leak or 2) this is the natural groundwater elevation (water table). A simple pump test will determine with reasonable certainty whether or not the pond bottom has intercepted and is connected to the water table.

To accomplish the pump test, select a pump that will allow you to draw down approximately 6 inches of water from the pond surface in less than 3 hours. (For large ponds, your local rental center or pond contractor should have a pump large enough for the job.)

Mark the starting water surface elevation and ending water surface elevation. Over the next 24-48 hours monitor the water surface carefully. If the water surface rebounds toward the starting point, the pond has most likely intercepted the water table. If the water surface stays at the same elevation, the initial water surface elevation is the elevation of the leak.

Options for pond leak repair

First, let's dispel a common misconception. Sprinkling a modest amount of bentonite in almost any of its various commercial forms into standing water is unlikely to stop or slow a pond leak. Bentonite is a natural expanding clay found in Wyoming which does have a role in repairing leaks and sealing water bodies. To be certain, it is a great product when used properly. Click here for pricing of bulk bentonite clay. If you want to attempt to seal a pond bottom without draining the water, Soilloc. A two-part polymer may be the best option.

To properly apply bentonite for ponds, the pond must be drained and the bentonite then incorporated into the soil of the pond bottom and sides. The application rate for bentonite ranges from 2 pounds to more than 5 pounds per square foot depending on the soil characteristics. For clayey and silty soils, 2 pounds per square foot MAY be sufficient. For sandy soils 4 pounds MAY be sufficient and for soil containing gravel and rock, in excess of 5 pounds will be required to obtain a seal. Once the bentonite is applied, the soil should be disk harrowed to mix the soil and bentonite and then compacted. Alternatively, a continuous blanket of bentonite can be applied to the soil and then carefully covered with clean soil or sand to prevent the clay from mobilizing into the water column. More details on bentonite clay application.

In many cases, the cost of properly applied bentonite is as much as a properly installed geosynthetic pond liner system. Geosynthetic liner such as EPDM Rubber provides a completely impervious barrier for maximum water retention. The liner systems are field seamed in large panels and can be constructed to virtually any size. Once completed a geosynthetic liner can be covered with soil or rock which completely hides the liner system from view. The EPDM rubber pond liner referenced above carries a 20-year manufacturer's warranty and, in field tests, the liner lasts significantly longer than 20 years.

Using the two-part polymer to seal the pond bottom soil is the most effective technique that does not require the pond to be drained. The polymer is applied by broadcasting over the pond surface. As the polymer is applied the two components react with water and begin to work. Part A is an absorbing polymer which swells when exposed to water. This part, lodges in soil pores and swells to begin to seal the pores. Part B is a polymer that has a positive charge that will attract and hold negatively charged clay particles. This attractive, Part B Polymer, works over time by continuing to accumulate fine particles in the pond bottom to further seal the pond bottom. If applied during initial construction, the polymer can be used as a dry soil additive to improve the pond seal. Learn more about pond bottom sealing here.

Pond Embankment Leak Repair

For a leaking embankment, if the location of the leak has been identified, it may be possible to construct a core trench in the embankment to slow the leak. To install a core trench, excavate a minimum 24 inch wide trench to at least 2 feet below the pond bottom elevation. The trench should be located as far back from the pond edge as possible while still remaining on the flat top of the embankment.

The goal is to create an impervious core in the embankment which will not allow water to pass through. This impervious core can be created in a number of ways. Bentonite can be mixed with the excavated soil at a rate of 30% bentonite and 70% native soil. The material should be placed back in the trench and compacted with a trench roller, whacker, or excavator bucket in 6 inch lifts.

Alternatively, EPDM liner can be buried in the embankment by draping a solid sheet of EPDM liner along the trench wall closest to the pond and carefully backfilling the trench. Again, the soil should be compacted as the trench is backfilled. Applying a bentonite mix at the bottom of the liner curtain and at the ends of the liner curtain will help to prevent water from seeping around the curtain.



Leaking Pipes and Outlet structures

All pipes that are installed through the pond embankment should be fitted with an antiseep collar to prevent water from flowing along the pipe. If a pipe is installed through the embankment without an antiseep collar, the pipe can be excavated and a bentonite clay plug installed around the pipe. Ideally, the bentonite clay plug should extend at least 3x the pipe diameter around the pipe.

In some situations, it may be more effective to install a well or surface water intake to provide make-up water. There are a variety of automatic control systems that can be used to operate a well pump or valves to provide water to the pond. Surface water intakes can be constructed even if a gravity flow system is not feasible. Natural WaterScapes has installed a variety of pump-up systems to stabilize pond water surface elevations.

Contact us for details on our Pond Leak Evaluation and Repair Planning Services.

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HOME / POND SERVICES / POND RESTORATION

Pond Restoration

Pond Restoration Services

Do you remember how amazing your pond was years ago? Reclaim that memory and create the water body that will be the focal point of your property!

Over time decaying vegetation, sediment, and debris build up in your pond or lake bottom creating a recipe for disaster - algae blooms, poor fish habitat, aquatic weeds, murky water, and potentially toxic water chemistry.

Removing this organic sludge is essential to restoring the proper function and water quality of your water body. Once the accumulated sludge is removed, new natural products are available to prevent additional muck accumulation.

A complete pond restoration will TRANSFORM your pond into an incredible body of water that becomes the focal point of your property!



Take the next step with a detailed, professional evaluation of your restoration options.



Imagine the joy that your restored water body will bring. Experience an unbelievable array of wildlife. From songbirds to waterfowl and interesting wading birds, the pond and wetland environment is a favorite for winged wildlife. A pond can be renewed with specific fish species in mind as well - support trout populations, largemouth bass, perch, crappie, sunfish, blue gills and other game fish.

Many ponds with little or no summer-time flow benefit from the addition of a stunning waterfall or aeration system.

Our constructed waterfalls are designed and built like no other. Unique methods are used to create an environment where natural aquatic organisms thrive. This aquatic life occasionally dislodges from waterfall tumbling into pond where it provides a completely natural food supply for fish life. Your pond now has a completely natural, self-sustaining feeding system which results in healthier, larger fish.

A recent survey of a client's pond showed that stocked 5" rainbow trout had reached a length of over 14" IN JUST 4 MONTHS! WOW!

Recent restoration work featured on WNEP TV's PA Outdoor Life

Featured Pond Restoration Project



Our complete pond restoration process includes:

- Initial Evaluation - meet with owner discuss goals and pond uses
- Review potential restoration work items
- Determine sludge volume and location for disposal
- Design any desired pond bottom modifications
- Prepare restoration plan including revegetation of pond margins, aeration system, pond bottom modifications if desired, outlet improvements, and optional upgrades (nesting islands, waterfall circulation system, filtration, dock, etc)
- Review Restoration Plan with Owner
- Dewater pond
- Coordinate Construction
- Remove organic muck
- Repair dam and/or embankment if necessary
- Monitor pond during re-filling
- Monitor water quality and adjust as necessary prior to fish stocking
- Install native aquatic plant species on pond margins as desired
- Re-stock pond with appropriate fish species



Considering enlarging your pond? We can help. A pond expansion is a logical extension of renewing an existing pond. We will carefully study your existing pond and associated soils to provide you with accurate pond enlargement options.

Complete the Project Application below to see if we can meet your needs.



Very responsive and knowledgeable!

Teresa C.
15 Sep 2019

CLICK HERE FOR MORE REVIEWS



Natural Waterscapes Project Application

New Project Application Form

Name *

Input field for name

Street Address

Address Line 2

City State/Region/Province

Postal / Zip Code Country

Email *

Phone

Project Type *

New Pond or Lake Design/Construction
 Dredging and/or Restoration of Existing Pond
 Leak Repair
 Pond or Lake Expansion

Select all relevant choices

Pond or Lake Size

1.00

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 Within 3 months
 In the next year
 I'm just researching and do not have a defined timeline

Select project timeline

Submit

Providing pond restoration, pond dredging, muck removal, and pond vegetation removal throughout PA, NY, NJ, MD, DE, and OH.

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