

Applied Polymer Systems, Inc.

519 Industrial Drive, Woodstock, GA 30189

678-494-5998

www.siltstop.com

Jim Berry Pond

Innovations

In Pond & Lake Management

Berry Pond is 0.45 acre in size and approximately 5 feet deep. As the picture to the right clearly shows, the pond was completely covered in duckweed and watermill. Despite the fact there are two aerators and a fountain that ran every day, the pond had experienced several fish kills as a result of low dissolved oxygen levels over the past two years.

To clean the pond, a LIPVAC circulation system was installed with Applied Polymers Systems, Inc. 806 Pond Log Links. LIPVACS stands for Low Interior Pressure Venturi Aeration Circulation System. According to Eco-Pond Rescue's website, the venture system is designed to operate on high volume but with low pressure. This allows the pump to operate at a high efficiency reducing electrical costs. In addition to the LIPVACS, APS 806 Pond Logs were installed in Berry Pond.



Above: Initially Berry Pond was 100% covered with duckweed and watermill

Below: One week after the installation of the APS 806 Pond Log there is a visible difference.



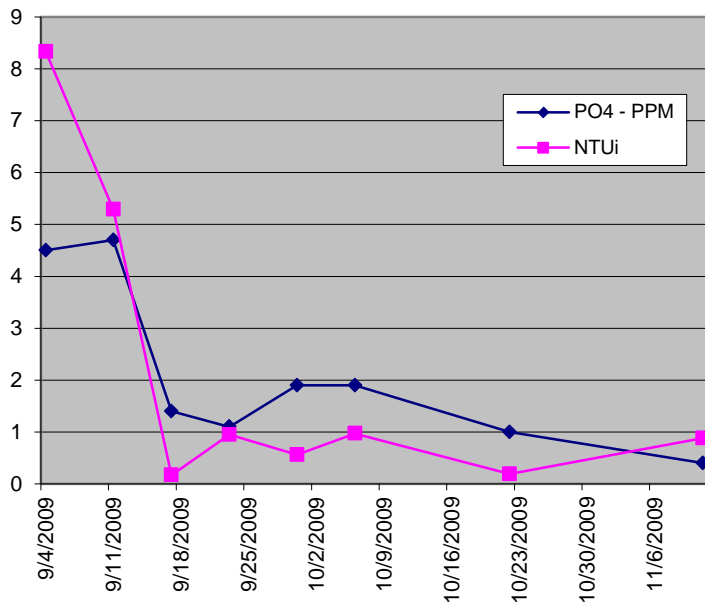
The Pond Log has been found to reduce phosphorous by 75-90% using traditional methods of aeration and circulation. When used with the LIPVACS circulation system, the pond is aerated while the Pond Log components are circulated throughout the pond. The phosphorous and nonliving nutrients are flocculated out and reduced.

Applied Polymer Systems and Eco-Pond Rescue continued to monitor the phosphate and NTU readings over the course of the next 60 days to ensure there were not increases in either that would produce a duckweed or watermill bloom.

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Berry Pond PO4 and NTU Readings



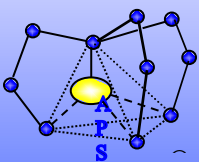
The chart to the left shows the reduction of the phosphate and NTU levels in Berry Pond over time. The blue line indicates the decline in the phosphate levels. Initially Berry Pond had a phosphate level of 4.5 ppm. After a couple of months the phosphate levels dropped to 0.4 ppm.

Although the pond was completely covered with duckweed and watermill there was not an issue with turbidity in the pond. The initial turbidity reading was at 8.33 NTU. After a couple of months the turbidity was reduced to 0.88 NTU. Even though the initial reading was very low the Pond Logs were able to reduce the turbidity while reducing the phosphate.

The results are clear...literally. Berry Pond was once a haven for nuisance aquatic weeds. Within a few short weeks Berry Pond has become a beautiful water body that all of the residents can enjoy. Not only was the pond cleaned, the aquatic life toxicity was reduced.



For more information on this or other Polymer Enhanced BMPs contact:



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678-494-5998
info@siltstop.com