

# Applied Polymer Systems, Inc.

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# Floc Log<sup>®</sup>

Applied Polymer Systems, Inc. 700 Series Floc Log<sup>®</sup> is a semi-hydrated polyacrylamide blended block that when placed within turbid water flows will remove fine particles and reduce NTU values. Each Floc Log is formulated for the soil and water chemistry of the geographical area where placement and usage are intended.

The Floc Log<sup>®</sup> is one of the most innovative approaches to using polyacrylamide blends in water applications. Not only is the Floc Log<sup>®</sup> non-toxic, but it also eliminates the need for machinery or other electrical devices for pumping or mixing when using liquid materials to treat turbid water. The Floc Log<sup>®</sup> contains materials that enhance its performance by reducing reaction times and decreasing NTU values. This enables the Floc Log<sup>®</sup> to outperform the results of PAM or chitosan alone. The Floc Log<sup>®</sup> is for use wherever turbid water flows occur. As with all Applied Polymer Systems, Inc. products, proper soil or water sample analysis must be done to determine which Floc Log<sup>®</sup> type is correct for your soil.



Floc Log<sup>®</sup> ditch placement, used in conjunction with BMP's



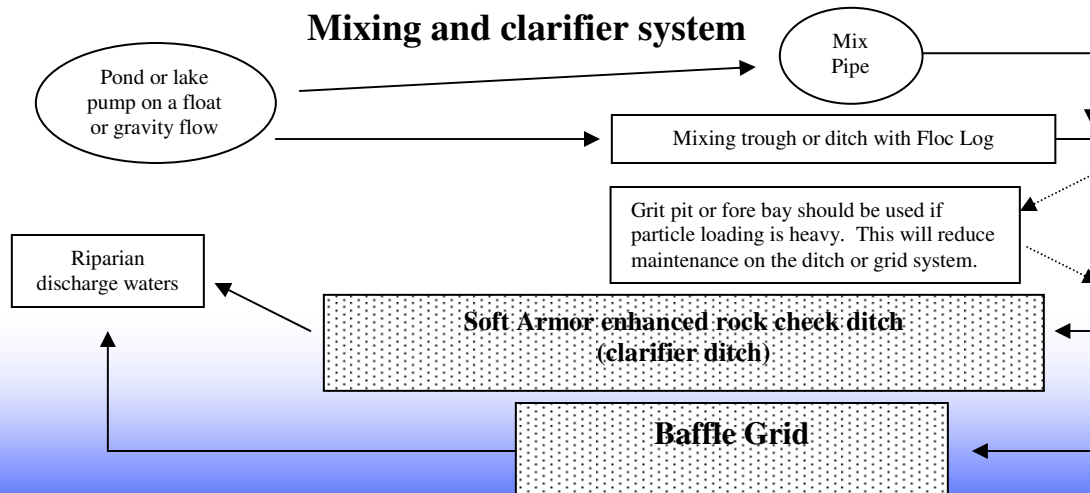
Turbid water before and after being treated with the Floc Log<sup>®</sup>

### Floc Log<sup>®</sup> Specifications

ANSI/NSF Standard 60 Drinking Water Treatment Chemical Additives  
 EPA/600/4-90/027F 48Hr. Acute Static Screen Toxicity Test (*Daphnia Magna*)  
 EPA/600/4-91/002 7 Day Chronic Toxicity Test (*Pimephales promelas*)

APS, Inc. currently has over 50 types of Floc Logs<sup>®</sup>. Each Floc Log<sup>®</sup> is tailored for the specific requirement of water chemistry and soil within your geographical area. Soil and water testing are done free of charge at the APS Lab.

The Floc Log<sup>®</sup> is available in two forms, clarifier and particle. Clarifier Floc Log<sup>®</sup> is used for colloidal water and very fine suspended particles. Particle Floc Log<sup>®</sup> is used for heavily particle laden water in areas before sediment traps and sediment ponds. (Floc Log<sup>®</sup> is available in boxes of 4)



# Floc Log<sup>®</sup> Placement and Various Mixing

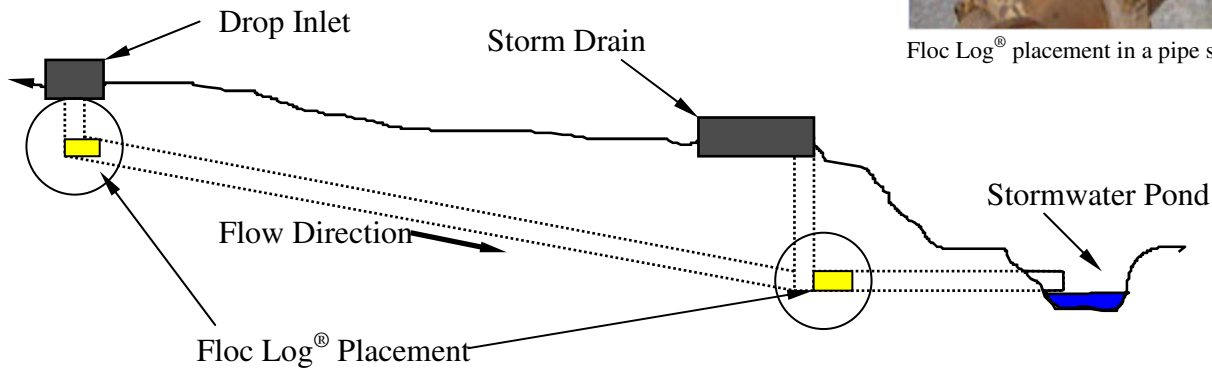
## Placement

Placement of the Floc Log<sup>®</sup> should be as close to the source of the particle suspension and turbidity as possible. Finer particles and colloidal suspensions will require greater mixing times, usually never greater than 75 seconds, but typically 10 to 30 seconds. The mixing time is the time it takes for the water to flow through a ditch system or a pipe. Ideal performance will be obtained when the Floc Log<sup>®</sup> is used in conjunction with the Best Management Practices. Rock checks, drop inlets, storm drains, retrofits and slope drains all greatly enhance the effectiveness of the Floc Log<sup>®</sup>. The Floc Log<sup>®</sup> is designed for a base flow rate of 60 – 75 GPM (Gallons Per Minute). A typical placement is shown in the following diagrams.

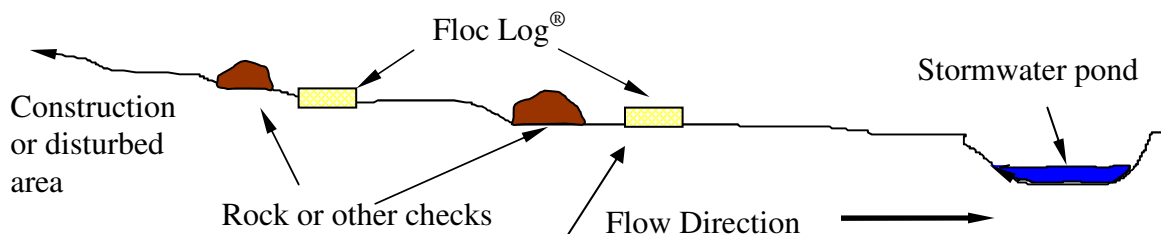


Floc Log<sup>®</sup> placement in a pipe system

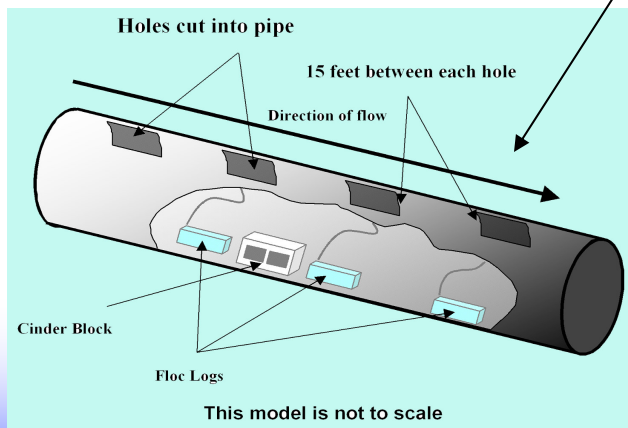
## Closed drain placement



## Open ditch placement



Example: Pipe Mixing System



Piping system using the Floc Log<sup>®</sup>

As shown in the diagrams, the Floc Log<sup>®</sup> can be used in a variety of mixing systems. Placement between each Floc Log<sup>®</sup> is typically 15 feet, and they should be well upstream from the discharge point to allow for adequate mixing time. For best results, Floc Logs<sup>®</sup> should be kept moist and should not be placed in direct sunlight.

For a no cost sample analysis contact us at 678-494-5998. This analysis is imperative as there is no one Floc Log<sup>®</sup> for all soil types.