



## An Innovative Approach to Cleaning Dirty Water & Preventing Contaminants From Leaving Your Construction Site!

### An Innovative Solution to Your Storm Water Turbidity Problems

Organic matter, pesticide and fertilizer residues, fines, and heavy metals (mercury and lead) carried by storm water runoff from construction and other exposed sites can wreak havoc in the areas where they are deposited. Contaminated soil, bodies of water, and wetlands cannot function normally, potentially creating far-reaching ecological problems.



Unfortunately, traditional methods of controlling runoff, while effective at slowing the velocity of the water and/or redirecting it into holding areas, can do nothing to address the problem of particulate matter carried in the water. These pollutants and fines are not filtered out by hay bales or silt fences, and they cannot settle out by gravity separation alone regardless of how long the water is retained.

GeoEnvironmental Inc. introduces a simple and economical solution to the problem of suspended pollutants. The Floc Bloc removes colloidal suspensions (including clay particulates) from storm water runoff using the latest technology.

### How Does a Floc Bloc Remove Unwanted Material From Water?

A Floc Bloc is a semi-hydrated blended gel polyacrylamide and mineral block. It is a flocculant, an agent that when introduced into water carrying colloidal suspensions of natural and man-made pollutants causes the contaminants to clump together and drop out of suspension.

Floc Blocs are placed at strategic points where a site's runoff can be directed to flow over them. The Floc Bloc is designed to be able to treat water at a base flow rate of 50 to 75 gallons per minute. Once situated and in contact with water, the Floc Blocs slowly dissolve releasing minute quantities of matter that convert colloidal suspensions of pollutants into an insoluble form that cannot remain in suspension and that cannot re-dissolve and go into the ecosystem.

It gets the pollutants and dirt out and they stay out allowing the water to be immediately discharged. This increases the ease with which the pollutants may be collected and appropriately disposed of.



## Features and Benefits

- The prevention of removed pollutants from re-suspending
- Reduced operational and clean-up costs
- Increased soil permeability (pores are created by the agglomeration of fine particles)
- A marked reduction in negative environmental impact and increased compliance with EPA regulations (including the Phase II Storm Water Act)
- Remarkable ease of installation



## Why Is the Floc Bloc Best at Cleaning Dirty Water?

Because of the advanced chemistry behind Floc Blocs and the proprietary additives in Floc Blocs, each one can be specially formulated to work with the specific chemical profiles of the soil and water at the site where it will be used.

Testing the soil from the application site and determining the exact Floc Bloc to complement it's soil is an innovative approach that stands in contrast to a onesize-fits-all, premixed product. Long lasting and economical, Floc Blocs are the NEXT GENERATION of effective storm water management.

## Site Specific Floc Bloc

- Over 26 different formulations tailored to the specific requirements of the site's water chemistry and soil composition.
- Available in many forms to better address your site's needs:
  - A Series Clarifier Floc Bloc (colloidal water & fine particles)
  - B Series Particle Floc Bloc (heavier particles)
- Rapid reaction times: generally less than 75 seconds for clarifying, 10 to 30 seconds for particulate removal
- Applications have proven cost effective with tremendous results lasting for up to two years
- Non-Toxic to the Environment, Fish and Wildlife, will not change the soil's pH

Our product provides the **ULTIMATE PROTECTION** against contamination of ad-joining areas by efficiently removing pollutants and fines from runoff. By effectively removing these unwanted materials, Floc Blocs greatly enhance compliance with EPA regulations and reduce the possibility of fines being levied.

You be the judge! We can arrange a **FREE, no obligation** analysis of your site's soil, and make specific recommendations for your site. Enhancement tools and engineering designs are also available. Please contact us for details.



Floc Bloc Properties	
Product Form	Gel Polyacrylamide Bloc
Treatment Rate	75 Gallons per Minute
Active Ingredients	Based on Soil Chemistry
Composition	Blends of Anionic Polymers and Minerals in an Inert Gel Base