



Bloom Useful in Wetland Restoration

Research shows Bloom outperforms other soil amendments when used to build mitigation wetlands.

By Brian Scott, PhD Candidate, University of Maryland

Wetlands are important ecosystems, cleaning and maintaining our water supplies. Whenever a wetland is removed to build new roads or neighborhoods, new ones are built. The secret to cleaning our water is a soil chemistry that is unique to wetlands. So, to condition the soil, new wetland projects often include some type of soil conditioner, and organic amendment. Recent research conducted by Brian Scott, a PhD candidate at the University of Maryland, compared different amendments. The work was funded by the State Highway Administration, the largest wetland builder in Maryland.



Another obvious benefit of Bloom is lush and robust plant growth. In the image above, the area of the site treated with Bloom stands out as having green, thicker vegetation. There are several other areas within the test plot that also show increased plant growth; however, in the plants in these areas are wetland “weeds”. Bloom was more likely to stimulate plant growth, but not the growth of less desirable species.

Another key finding from the study was that composted amendments are preferable to un-composted, or fresh organic material. Therefore, Cured Bloom would be the best choice for wetlands.

Additional information about the research study is available at: <https://www.youtube.com/watch?v=HMk2u5R4kVk>



Wetland Research site near Goldsboro, MD

Bloom performed better than other organic amendments in several key categories. First, the research showed that most organic amendments produce excess amounts of methane. Methane is a strong greenhouse gas and contributes 25 times as much to global warming as carbon dioxide. Only recently have scientists realized that methane generated from wetlands is a global concern. When compared with equal amounts of other organic amendments, Bloom produced the least amount of methane and only slightly more than natural soils with no amendment.

