

# Filler Material Performance

Understanding the Sediment Removal Rate and Hydraulic Flow Rate (Performance) of Filler Material can be important in properly sizing and using CFS. Two measurable characteristics can be used to establish a performance range – the percent of Key Particulate, and the percent of Void Volume. In the example below, the percent of particulate passing through a 3/8" sieve (Key

Particulate) was measured at 43%. The empty space within the compacted Filler Material (Void Volume) was measured at 62%. These measurements correlate to an estimated Hydraulic Flow Rate of 5 g/min and sediment removal on the higher end of the scale. In general, a higher density Filler Material (i.e. lower Void Volume/ higher Key Particulate) equates to the lower

Hydraulic Flow Rate and Higher the Sediment Removal Rate. *NOTE: Many things can effect Performance such as sediment make up and ever increasing Void Volume consumption of over the life of the CFS. Because of this, CFS typically performs best within the first several months of installation but may perform adequately for over a year.*

