

## How to calculate distance downstream to place your floc and silt mat

Determine which types of particles will be deposited in the stream:

Medium gravel	12 mm
Fine gravel	6 mm
Very fine gravel	3 mm
Very coarse sand	1.5 mm
Coarse sand	0.75 mm
Medium sand	0.375 mm
Fine sand	187.5 $\mu\text{m}$
Very fine sand	93.75 $\mu\text{m}$
Silt	33.2 $\mu\text{m}$

Select the correct  $k^1$  value for your particle size (m/s)

1.18
2.04
3.58
6.83
13.31
29.89
83.66
288.40
2278.56

×

Find the velocity of your stream in m/s

×

Measure the depth of the middle of your stream (m)

=

\_\_\_  $k^1$  \* \_\_\_ m/s \* \_\_\_ m = \_\_\_\_\_ mtrs downstream

$k^1$  \* Stream velocity (m/s) \* Depth (m) =  
Number of meters downstream that mat needs to be placed

<sup>1</sup> $k$  = the settling distance (m) i.e. distance particle travels downstream in a 1m depth stream with 1m/s stream flow

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