

Number of Floc bags needed per site as a function of site size and expected rainfall¹.

Size of site (acres)	1			5			10			20			50																																															
Inches of Rain in 24-hrs	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3																																													
Runoff (millions of gallons)	0.027			0.054			0.081			0.135			0.270			0.405			0.270			0.540			0.810			0.540			1.085			1.630			1.360			2.720			4.10																	
Treatment recommended	*1 Floc 250			*1 Floc 250			*1 Floc 250			*1 Floc 250			*2 Floc 250			1 Floc 500			*2 Floc 250			1 Floc 500			+ 1 Floc 250			2 Floc 500			1 Floc 500			+ 1 Floc 250			2-3 Floc 500			3 Floc 500			+1 Floc 250			2.5-3 Floc 500			5 Floc 500			+1 Floc 250			8 Floc 500			+1 Floc 250		

Maximum pumping time

Pump Type	Flow rate (gpm)	No. of Floc 500 required	Expended After:
2- inch	50-250	1	30 hrs
3-inch gas	250-350	1	30-40 hrs
4- inch diesel	500-750	1-2	24-33 hrs
6-inch diesel	750-1000	2-3	25-36 hrs

¹ Gravity Flows

When BIOSTAR™ CH Floc bags are used with gravity flows, it can be difficult to determine the number of bags needed because stormwater flow rates vary in storm intensity and frequency. The project manager and project engineer should work closely to estimate stormwater flows. Monitor rainfall to determine when enough runoff is generated to warrant use of additional Floc bags.

*The recommended treatment will last multiple rain events of this size given the bag is not left to dissolve in standing water.
 Locate bags where flow is anticipated.
 Recommended treatment for total runoff- on sites of sufficient size to require more than one retention basin, calculate the percent of runoff directed to each and divide treatment accordingly.

Liquid BIOSTAR™ CH sprayer application

One gallon of 2% Liquid BIOSTAR™ CH diluted in approximately 30 - 40 gallons of clean water will treat approximately 30,000 - 40,000 gallons of turbid water at a rate of 1ppm.

(initial turbidity determines application rate)

* do not apply undiluted, obtain correct application instructions prior to use.

NOTE:

pH of turbid water must be between 6.5 & 8.5 for optimum performance.

