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Applied Polymer Systems, Inc.

Example calculation sheet from field monitoring data:

Jen-Hill derived this information from a case study at Soldier's Field in Chicago, Illinois prepared by John Price and Company.

Dosage Rates for Applied Polymer Systems 704b Floc Log:

3 Floc Logs lasted 6 days of pumping, 24-hours a day, 150 gallons per minute.

Therefore:

3 Floc Logs x 7.5 lbs each = 22.5 lbs of polymer

6 days x 24 hours/day x 60 minutes/hour x 150 gallons x 8.33lbs /gallon = 10,800,000lbs of water

Formula Breakdown

How long will the product last.

Number of days, Hours per day, gallons per minute

Example: 3 Floc Logs lasted 6 days of pumping, 24-hours a day, 150 gallons per minute.

Calculate the total weight

Number of Floc Logs x weight of Floc Log = total weight of product

Example: 3 Floc Logs x 7.5 lbs each = 22.5 lbs of polymer

Calculate the total water weight

Days x hours of flow x 60 minutes an hour x gallons per minute x weight of a gallon of water = total lbs water

Example: 6 days x 24 hours day x 60 minutes per hour x 150 gallons x 8.33lbs per gallon = 10,800,000 lbs of water.

Divide total weight of product by total weight of the water = ppm

Total weight of the product / total weight of the water = ppm

Example: Yield: 22.5 lbs of polymer / 10,800,000 lbs of water = 2.1 ppm

Figure 1

Dissolving times may vary for each Floc Log® type