

Hourly Flow Rates

Example:

Minimum Daily Flow: 22,000 gallons

Required Sample Volume: 10,000 ml

10,000 ml divided by 22,000 gallons equals 0.45ml/gallon (use 0.5)

Required aliquot volume of 0.5 ml of sample per gallon of discharge.

Time	Discharge Volume	Required Aliquot Volume	Sample Volume
07:00	1000 gallons	x 0.5 =	Aliquot Volume 500ml
08:00	2500 gallons	x 0.5 =	Aliquot Volume 1250ml
09:00	2500 gallons	x 0.5 =	Aliquot Volume 1250ml
10:00	2000 gallons	x 0.5 =	Aliquot Volume 1000ml
11:00	3000 gallons	x 0.5 =	Aliquot Volume 1500ml
12:00	1000 gallons	x 0.5 =	Aliquot Volume 500ml
13:00	1000 gallons	x 0.5 =	Aliquot Volume 500ml
14:00	3000 gallons	x 0.5 =	Aliquot Volume 1500ml
15:00	2500 gallons	x 0.5 =	Aliquot Volume 1250ml
16:00	1500 gallons	x 0.5 =	Aliquot Volume 750ml
17:00	4000 gallons	x 0.5 =	Aliquot Volume 2000ml
Totals 24,000 gallons Sample Volume 12,000 ml [Includes safety factor, See Note under (2)(A)]			

This method can be done manually or by using an automatic sampler that collects individual aliquot samples.