

Test Equipment for Free Gravity Drainage Testing



1000 ml Buchner Funnel



1000 ml Graduated Cylinder



Stopwatch



Belt Press Fabric

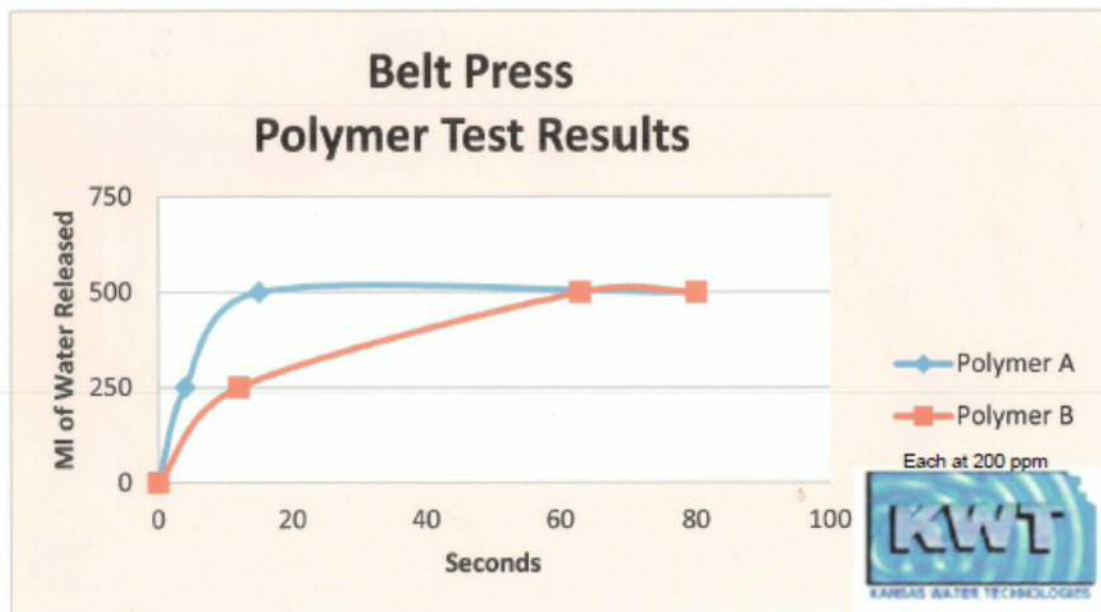


Two 1000 ml graduated beakers

Cut for size of Buchner funnel

Test Method for Free Gravity Drainage Test

1. Add sludge to one 1000 ml beaker. Use 500ml, 750ml or 1000ml sludge as convenient
2. Add dosage of polymer to beaker with sludge
3. Mix back and forth from one beaker to another a set number of times (5 to7)
4. Quickly pour treated sludge into the Buchner Funnel (fit with circular piece of belt press fabric). The Buchner Funnel is set on top of the Graduated Cylinder
5. Use stop watch to determine number of seconds to filter 100 ml, 200 ml and up to 500 ml of water. Record polymer, dosage, volumes and time to filter (seconds)
6. Graph volume vs.time to filter for each polymer and each dosage.
7. Determine which polymer and dosage gave quickest free gravity drainage. (See attached example graph)



Example Graph of Test Results