



Screen Buildup in Linear Flume



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FACILITIES

20ft long , 3ft wide and 4ft deep
Closed loop flow with new 5HP Pump
Only 1' wide section used in the tests
Clear Plexiglas side panel on one side
Flow straightner and diffuser at source
Study Head loss due to Nukon and Calsil





Test Setup Movie



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Head Loss Tests



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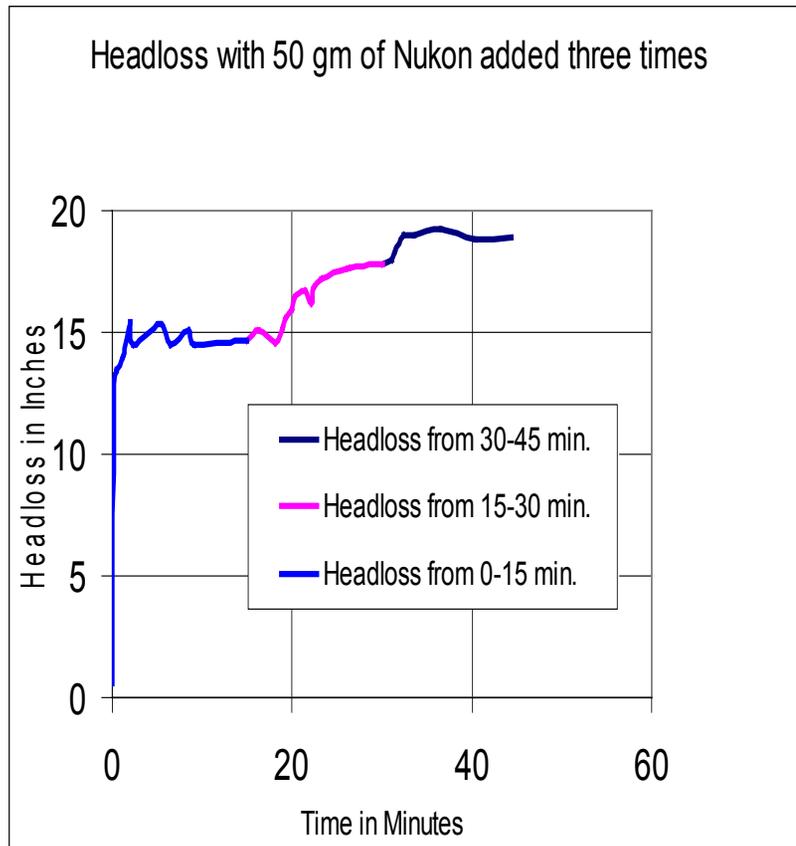




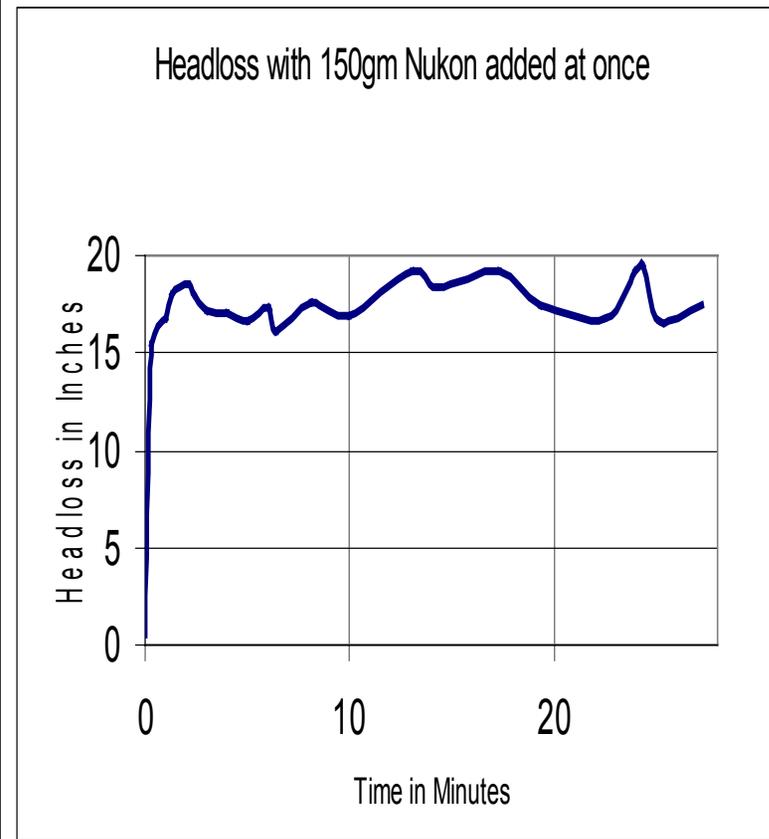
Head Loss from 150gm Nukon



Nukon added in 3 steps



Nukon added in 1 step





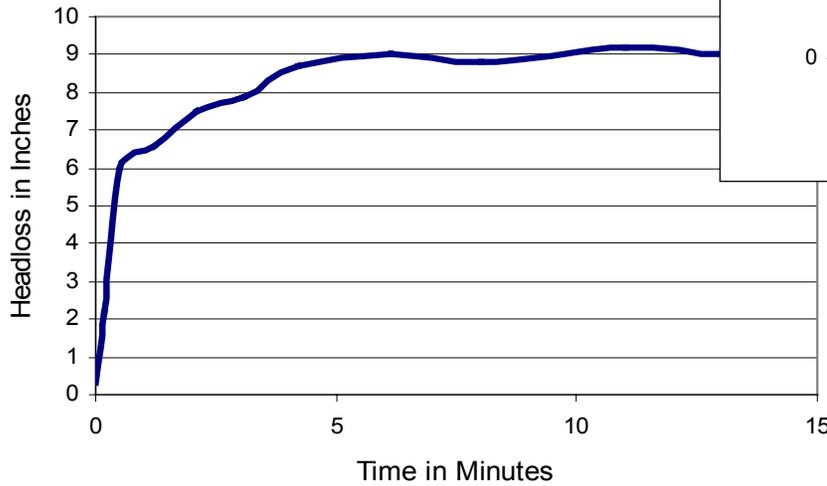
Head Loss at reduced velocity



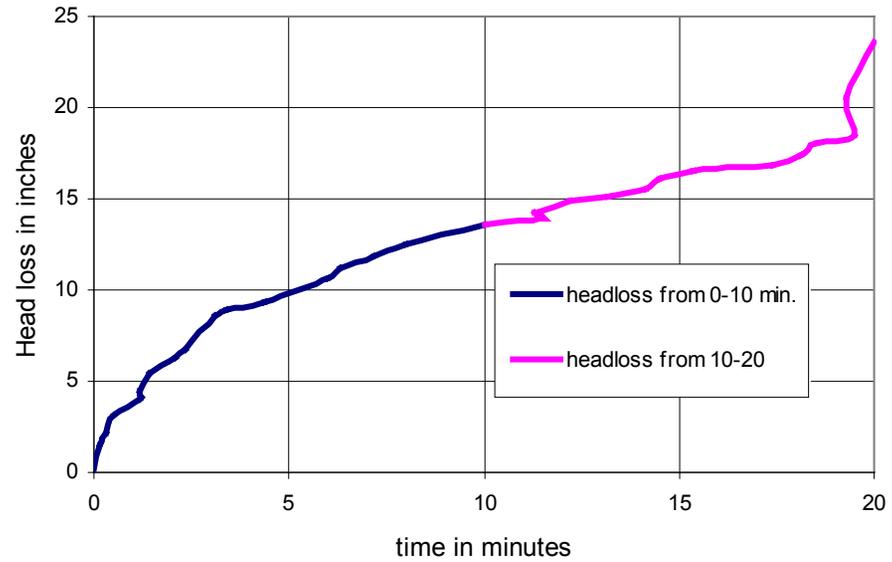
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Headloss with 50 g of Nukon



Headloss with Nukon and Calcium Silicate





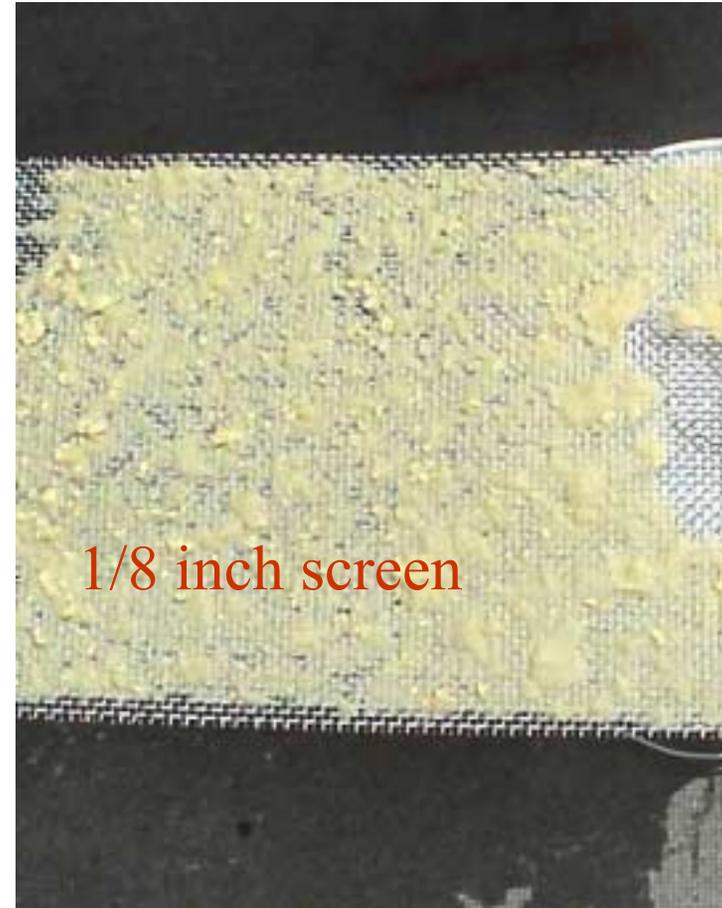
Debris Buildup on Screen



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1/4 inch screen



1/8 inch screen





Discussion on Head Loss Tests



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- **When the amount of Nukon is low, the head loss is also low. Addition of Calcium Silicate has little effect initially but when it collects on the screen, the head loss gradually increases.**
- **There is not much difference between the cases when 150gm of Nukon is added in 3 steps or when 150gm is added all at once. Eventually the head loss is the same in both cases.**
- **Most of the head loss takes place within a couple of minutes of the addition of Nukon.**

