

RECEIVED

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Department of Water Resources
Eastern Region

Department of Water Resources:

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I received the water right license preliminary order, and thought I better tell you the measured flow right now is 75 GPM. When I first set this system up some years ago now, I was still learning the best combination of the armature field adjustment and the jetting sizing for the best amount of power. Thus the estimate of .10 cfs. Now that I have fine tuned everything 75 GPM is my best estimate; this was derived by holding a 5 gallon bucket under the 4" discharge pipe and timing how long it took to fill, I did this multiple times.

This is my best case scenario, on other years without the great snow melt we had this year I would be down to LESS then .10 CFS, I have found that unless I slow the flow down enough (via changing the jets at the turbine) in order to keep the delivery pipe full, the electrical output really drops off. Conversely, it took a while to determine that too large of jetting using too much water, even during times of high water, would result in less power as I would run up against the max flow my 3" delivery pipe could handle. So, to sum up, I am now confident my usage will be a max of 75 GPM to a min of about 30. Every single drop of the water is discharged directly back into the creek, I walk the system daily and there are NO leaks anywhere in the system.

Tom Simko

License # 29-13720

A handwritten signature in cursive script that reads "Tom Simko".