



News

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Full Scale Testing Of Nutrient Separating Baffle Box 95% Removal Efficiency at 20cfs

At the Thompson Pump factory in Port Orange, FL, two giant pumps combined to produce a monstrous water flow of over 20cfs which flowed into a convergence box. Connected to the convergence box by a length of 36" pipe was a Nutrient Separating Baffle Box model NSBB-6-12-84 (6' wide x 12' long x 84" tall). Under the direction and documentation of Universal Engineering, a total of 3600 pounds of Sediment was added to the water flow through an opening in the top of the pipe.



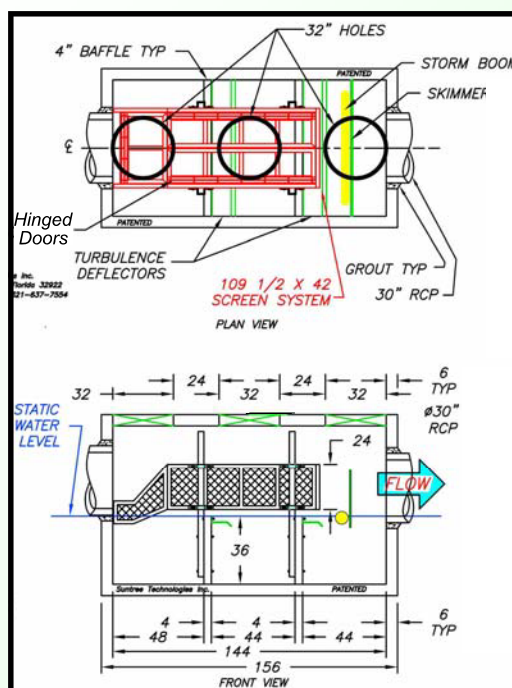
The entire 20cfs flow was treated by the Nutrient Separating Baffle Box.

After the sediment captured in the Nutrient Separating Baffle box was removed and measured, an astounding 95.75% removal efficiency determined.

To better substantiate the results of the experiment, 2 weeks later Dillard Engineering repeated the experiment with approximately the same results.

It was also determined that after the experiment was completed and the pumps turned off, that there was no re-suspension of the collected debris when the pumps were turned back on.

With a continuing increase in the enforcement of TDML & NPDES mandates, and the availability of improved technology, stormwater treatment systems will be required to treat the entire flow. The idea of treating only a small part of the flow will become a concept of the past.



Schematic of Model NSBB-6-12-84