

## **Peak Discharge Timing and Stormwater Detention**

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### **Abstract:**

Many communities now have ordinances requiring stormwater detention for all new development. Generally, detention ponds are designed to match or reduce the post-project peak stormwater discharge rate leaving a site when compared to the pre-project stormwater discharge rate. However, depending on the timing of the stormwater discharge in the basin, a stormwater detention system may actually increase the post-project peak stormwater discharge rate in the water body directly down stream of the project.

We'll discuss this issue and explore an example in which it was advantageous not to construct stormwater detention.