

**COOK LEGACY CASE STUDY**

**Air Burst System for Municipal Water**

<b>Industry</b>	Municipal Water
<b>Problem</b>	Update and retrofit of Municipal Water Plant to increase site capacity. The system piping and wet well were too small for the upgrade, leaving a very low tolerance for clogging on the screens.
<b>Solution</b>	Cook Legacy developed a custom air burst system to clean the screen. In order to ensure that the system had full capacity the air burst system was set to provide a burst of air based upon a timer, a push button, or a signal from the system SCADA indicating a drop in the wet well level.
<b>Result</b>	System is operable without structural modifications to the wet well.

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A water treatment plant was updating its capacity. One major component of this upgrade was doubling the intake capacity of the systems. Although the screens were properly sized to account for the upgrade (they were developed by Lee Cook in 1997) the physical system including the wet well was not. As such there was no room for clogging or loss of capacity within the system. Cook Legacy developed an airburst system which integrated with the plant’s SCADA system to provide a cleaning burst whenever water level dropped. The system was also flexible, and allowed for timer initiation, or initiation via an onboard touch screen.