

The Compact Agricultural Phosphorus Treatment Structure, or CAPTURE™, is a modular technology solution for removing soluble phosphorus from agricultural tile drainage and overland runoff before it discharges to local surface waters.

The CAPTURE™ system was designed and created by Kieser & Associates, LLC (K&A) with financial support from the Great Lakes Protection Fund. The system is Patent Pending.



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CAPTure™ installation basics

CAPTure™ box installations require hydraulic controls to ensure an optimal 60-second contact time for efficient media capture of soluble P. CAPTure™ boxes can be installed on drain tile outlets with drainage water management (DWM) structures, as well as with detention basins (Figure 1). These structures/basins reduce sediment transmission into boxes while accommodating box treatment flows of up to 100 GPM. When drainage areas exceed 25 acres, multiple CAPTure™ boxes can be installed in parallel (Figure 2).

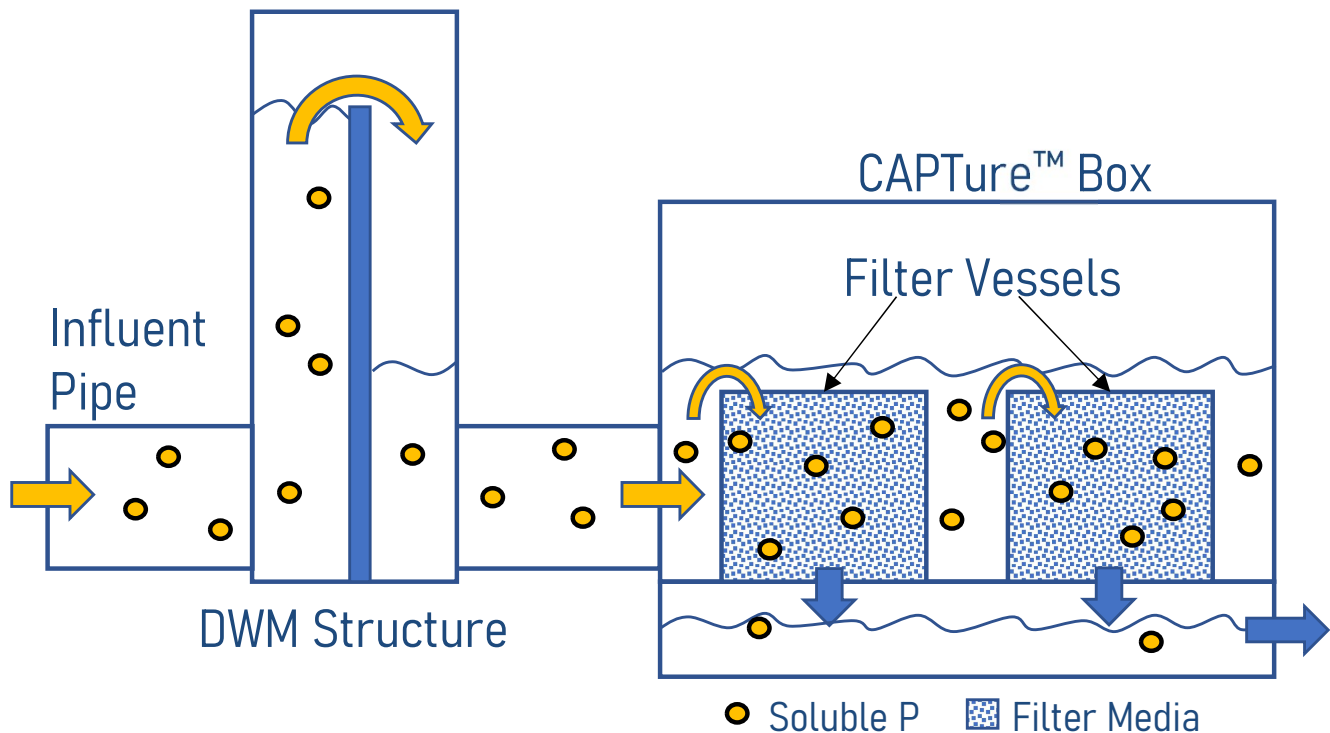


Figure 1. Diagram of phosphorus-laden water moving through a drainage water management (DWM) structure and treatment CAPTure™ box.



Figure 2. CAPTure™ installation with boxes in parallel for runoff and tile treatment of 100 acres. (See: <https://youtu.be/POPVedDvZg8?si=E04diP9Qpyie5a3e&t=127>)

For **CAP⁵TureTM** product & application
information, contact K&A

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