

Fact Sheet
Structural Measures
(Local Protection)

Option: Removable/Deployable Barriers

Description: A structure, such as stop logs or inflatable tubing, that functions like a levee or floodwall and is erected along the banks of a stream or path of floodwaters to prevent floodwaters from reaching the area behind the structure. Some systems, such as stop logs, require a permanent base or footing, while others may be deployed without a base. Category includes permanently installed, deployable flood barriers/gates that rise into position during flooding, due to buoyancy of barrier material and hydrostatic pressure.

Example(s): Water Inflated Property Protector (WIPP) – a portable levee filled with water, or an Invisible Flood Control Wall (IFCW) – a removable floodwall system consisting of aluminum stop logs. FloodBreak deployable barriers, with permanent installed base and buoyant barrier/gate panel. (FloodBreak barrier shown on next page.)

Benefits: These structures are movable and can be deployed or erected only in times of flooding. They are typically lower in cost than levees or floodwalls. The devices can be applied to individual buildings or smaller areas. FloodBreak barriers do not require manual intervention to rise into position during flooding.

Challenges: Flood warning is needed prior to deployment. Removable nature often limits the size or level of protection possible. Storage and maintenance of the equipment is required, as well as personnel trained and available to deploy or construct the systems. The IFCW requires construction of footings and tie-off/levees or floodwalls, as well as a flat base for seating the wall. FloodBreak has similar requirements for base, cutoff of seepage path, and tie-offs.



Delaware River Basin Comprehensive Study – Interim Feasibility Study for New Jersey Flood Risk Management Measures

Option: Removable/Deployable Barriers, cont.



FloodBreak barrier in operation



For more information, please visit: <http://www.nap.usace.army.mil/Projects/delbasin>