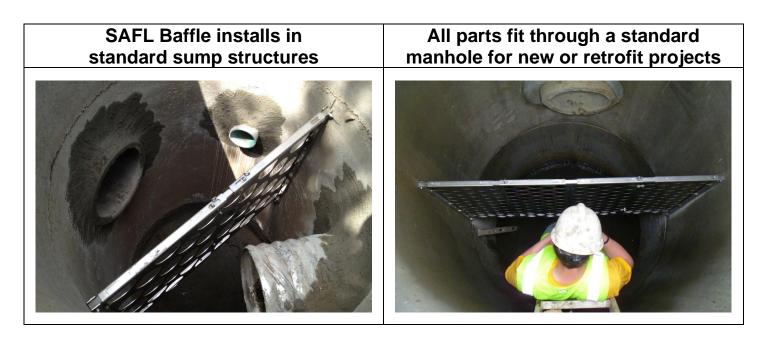


# **STORMWATER SEDIMENT SOLUTION**

### The most cost-effective sediment capture & retention device

SAFL Baffle is a fraction of the cost of hydro-dynamic separators with 10 times the flow rate

Typical comparison found on over 1,000 projects			
SAFL Baffle		Hydrodynamic Separators	
Cost:\$5,200TSS Removal Efficiency:84%By-Pass Flow Rate:80 CFSOperates by stopping the natural vortexThe SAFL Baffle stops the natural vortex that is		Cost: S TSS Removal Efficiency: By-Pass Flow Rate: Operates by creating a vortex Hydro Dynamic Separators operate with flo	
created in standard sump structures, dissipating hydro energy and causing sediment to drop to the bottom of the sump. As sediment collects in the bottom, the SAFL Baffle's design prevents vortex scouring and resuspension, retaining all previously captured sediment, even during high-flow storm events <b>up to 80 cubic feet per second</b> .		between <b>2</b> to <b>8</b> cubic feet per second. At greater flows, stormwater bypasses the device and <b>does</b> <b>not capture any sediment.</b> Internal plastic parts are prone to vibrate and break. SAFL Baffles can be retrofitted in the existing structure for a cost-effective replacement.	





Patent Protected

8,715,507B2 8,663,466B2 9,506,237B2 CA2742207

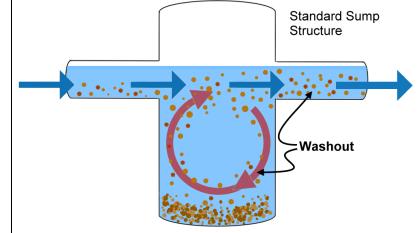


### The Problem:

Standard sump structures alone can capture up to 30%\* TSS

The problem is "Washout". During high flow events, vortex action scours the sump clean, washing out previously captured sediment.

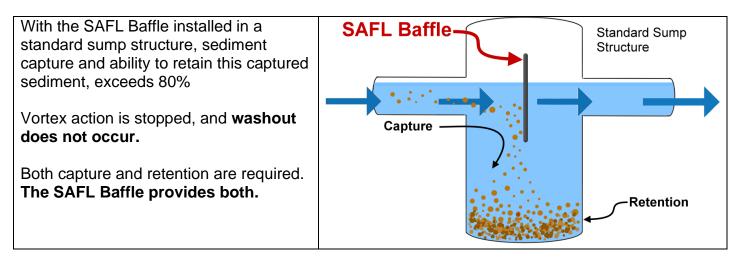
Sediment devices must be tested for both Capture and Retention (Washout) or the overall performance of the device is unknown.



\* TSS (Total Suspended Solids) percentage is calculated based on sump size, pipe diameters, drainage area & rainfall

## **Capture and Retention**

Both capture and retention, at high flow rates, are required to adequately manage sediment. What good is a sediment capture device, if the previously captured sediment washes out during a heavy storm?



Retrofittable - Can be installed in existing sump structures with a 24-inch minimum opening.

#### View a video demonstration: upstreamtechnologies.us/products/safl.shtml

The SAFL Baffle is a patented device and may not be reproduced. US Patents: 8,715,507B2, 8,663,466B2 and US 9,506,237B2 and Canada: #2742207

### www.upstreamtechnologies.us