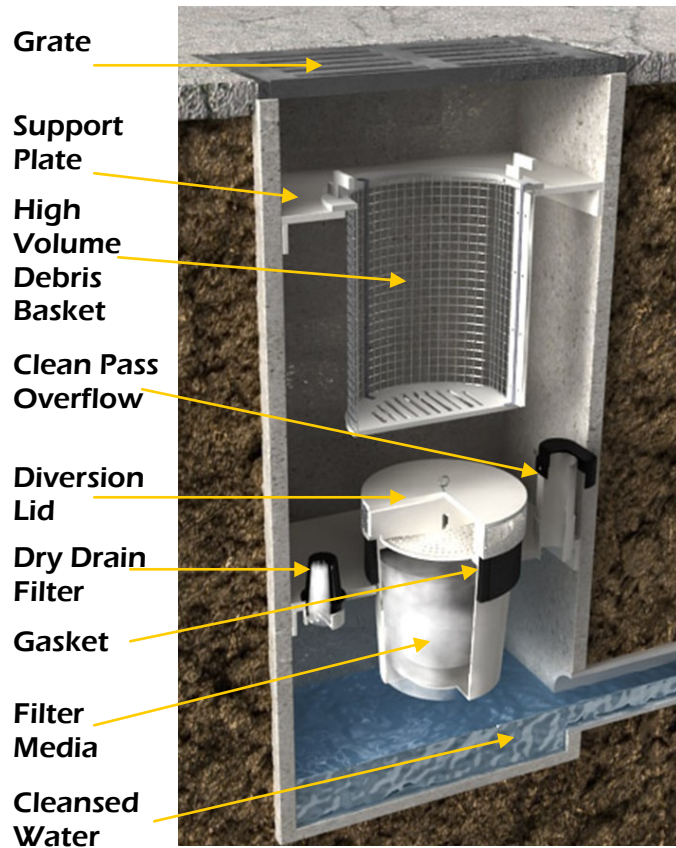


# Storm Debris Systems

## Stormwater Filters



EcoSense International, Inc.™ stormwater filtration systems are internationally tested and utilized structural devices which have demonstrated hydrocarbon removals of greater than 95% and the effective removal of additional pollutants including:

- Suspended and emulsified oils
- Total Petroleum Hydrocarbons
- Fuels
- **Bio-nutrients**
- Volatile Organic Compounds
- PCBs
- Organically bound heavy metals, benzenes, pyrenes
- Fecal Bacteria

EcoSense International™ debris and filter systems are made of high-density polyethylene and stainless steel making them lightweight, durable, simple to install and maintain.

A variety of filter medias allow for specific application

**"Clean Pass"** overflow allows full discharge yet still detains floatables

**"Dry Drains"** are miniature filters that wick remaining water from the sediment on the support plate minimizing bacterial-fungal-mosquito proliferation; nutrient release and odors.

Applications are used in numerous industries to prevent petroleum from becoming an illicit discharge into the environment



**Ideal for vehicle wash stations**

Debris basket with load (pictured above). The natural debris (nutrient sources) and trash have been diverted from the stormwater effluent, improving both the health and appearance of the waterway.

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Stormwater runoff is a major source of water pollution as agricultural fertilizer, debris, oil and grease from roads, parking lots, and driveways get washed into local waterways. The majority of these contaminants are transported in the first few minutes of a rain storm event, referred to as the **"first flush"**. Treating this "first flush" is key to protecting the environment.

After first flush, our peak flow bypass system, the "Clean Pass™" Over Flow, effectively detains "floatables", allowing clean water through at a high rate. The need for Over Flows is determined by the magnitude of the first flush. Once the storm event subsides, the filter catches up and continues filtering all of the incoming water.

EcoSense International, Inc.™ filters are easy to maintain: the average filter weighs 11 pounds when installed and will effectively filter pollutants for 6 to 24 months, depending on local conditions. Maintenance of the filter is based on weight, using an easy hand held scale. (pictured at right)

An innovatively engineered filter feature of EcoSense International, Inc.™ deposits sediment and large debris onto the support deck and not into the filter itself, extending the life and efficiency of the product.

Cleaning of the support plate can be done with a small drum mounted vacuum, a vacuum excavator or common vacuum truck.



## "Simple Solutions to Water Pollution"

*The US Environmental Protection Agency (EPA) estimates that half of all pollutants in waterways of the US comes from urban runoff.*

Urban centers impact water quality by such things as storm water runoff and soil erosion from construction sites. By decreasing tree cover to make room for homes and paved roads (impervious surfaces), water infiltration decreases and runoff increases. The EcoSense filtration system is internationally patented.

**Let EcoSense International, Inc.™ be part of your BMP and TDML plans**



Stormwater catch basin debris baskets address the TMDL, Total Maximum Daily Loads, Program requirements of the Clean Water Act. They are designed to be easily retrofitted to most any existing storm inlet, as well as new construction, and capture litter, foliage and other floatable materials.



Harbor dock scupper filtration system to remove hydrocarbons (pictured above)