

# The Next Generation in BMP Stormwater Treatment Systems



STORMWATER TREATMENT SYSTEMS

## SOLID SOLUTION TO YOUR STORMWATER POLLUTION PROBLEMS

- Best all-in-one pollutant removal system
- Up to half the cost of traditional systems
- Fast and easy to install and maintain

# EcoSense International

## THE NEXT GENERATION IN BMP STORMWATER TREATMENT



Stormwater run-off is a major source of water pollution as dirt, debris, oil and grease from roads, parking lots, and walkways are conveyed into sensitive receiving water and watercourses. The majority of these contaminants are transported in the first few minutes of a rain storm event, a phenomenon referred to as the "first-flush". Treating the "first-flush" is the first important step to protecting the environment.

### Value ✓

The EcoSense Stormwater Treatment System provides a superior best management practice that is effective, easy to install, and simple to maintain.

Regular maintenance of a stormwater BMP is critical to maintain treatment effectiveness. The advantage of EcoSense is that the maintenance is simple, and requires no special training or equipment. In addition, a maintenance and monitoring program is available through qualified contractors for all EcoSense systems throughout North America.

### Performance ✓

EcoSense filter media has been independently proven to remove up to 98% of inorganic solids and virtually eliminate Total Petroleum Hydrocarbons. The unique hydrophobic filter media attracts and permanently absorbs oil and grease as contaminants pass through the filter media for protection of the receiving waters. If oil and grease aren't your issue, EcoSense International can design the media to meet your site specific pollutant criteria.

Each cartridge is designed to treat 37 gallons / minute / square foot.

Depending upon the catchment area and space constraints, additional filter cartridges can be installed.

For flows greater than 37 gal/min a patented overflow system, "Clean Pass", ensures pollutants are detained in the system during even the heaviest flows. The large trash collection basket can collect over 90 lbs of trash.

### Flexibility ✓

ESI systems can be easily fitted to virtually any catch basin or inlet with many standard sizes available.

EcoSense can be equipped with several types of filter media to ensure the highest level of pollutant removal.



**“We have tested your product for a sufficient amount of time to determine that it does exactly what you said it would do.”**

*Ken Poole, Assistant Director.  
Department of Public Works. Miami, Florida.*

## FEATURES & BENEFITS

Made from stainless steel and durable PVC, the EcoSense system is designed with durability and longevity as standard.

- 1 The easy to remove debris basket collects litter, leaves, as well as other debris.
- 2 A 360° debris screen ensures the filter seldom clogs.
- 3 The unique hydrophobic structure of the filter media purifies the stormwater. The pollutant binds to the filtermedia, ensuring the pollutants will not leach into the outflow.
- 4 The uniquely designed overflow bypass vents allow water to bypass during a deluge event. The diversion hood prevents floatables and debris from bypassing the filter.
- 5 The dry drain ensures the platform drains completely, preventing dangerous bacterial and mosquito growth.
- 6 System design promotes sediment desposition at the base of each filter.



“Your stormwater treatment equipment was more efficient and price-effective than that of other competitors. After using your products for approximately six months and experiencing first-hand their performance and excellent results, we are very pleased.”

*Francis Mitchell, Assistant Director,  
Public Works Department, City of Miami.*

## Quick RetroFit Installation

The EcoSense system comes in several standard sizes and can be customized to match any size of catchbasin. Installation requires no digging or modification to the structure. All that is required is to securely anchor the braces into the basin wall, drop the platforms into place and caulk around the edge to create a water tight seal.



## Maintenance as Easy as 1, 2, 3...

Without regular maintenance any stormwater BMP system will eventually fail. Maintenance of the EcoSense system doesn't require specially trained personnel or costly equipment such as a vacuum truck. A single person can perform the task in less than a half hour. Skilled contractors are available to perform maintenance and conduct testing to ensure that your systems remain efficient and in compliance. Maintenance of a BMP system has never been this quick or easy.



1 Remove and empty debris basket.



2 Clean the platform of any sediment.



3 Weigh filter to determine saturation.



4 Drop the filter into place.





**EcoSense International**




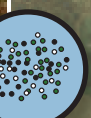


## THE BEST PERFORMING ALL-IN-ONE POLLUTANT REMOVAL SYSTEM

Fully customizable, able to retrofit to any preexisting catch basin, along with site specific filter media; no other BMP system is as effective and versatile as the EcoSense stormwater filtration system.

“Your units are ‘a godsend, picking up an astonishing amount of salt and sand’ and entirely outstripping initial performance expectations.”

Gerry LeMay, Municipal Supervisor.  
City of Belleville, Ontario.



MATERIAL	DESCRIPTION	% REMOVED
 <b>Garbage</b>	<i>The debris basket and filter combination prevents 100% of all litter, leaves and other solids from entering the storm system.</i>	100%
 <b>Hydro Carbons</b>	<i>The system will capture over 90% of total hydrocarbons during any rainfall event.</i>	> 90%
 <b>Heavy Metals</b>	<i>Heavy metals are entrapped by the filter media. Larger particulate, unable to reach the filter is captured by the dry drain or settles on the platform.</i>	60-90%
 <b>Total Suspended Solids</b>	<i>Total suspended solids (TSS) of all particulate size are captured by the filtration platform.</i>	80%
 <b>Nutrients</b>	<i>Nitrogen and Phosphorous are captured by the system. The standard filter traps sediment, debris, particulate, metals and Petroleum based hydrocarbons. Special filters are available which remove dissolved nutrients, metals, and toxic organics, including PCBs , BTX PCE and THMs</i>	50%
 <b>Bacteria</b>	<i>Biocide enhanced filters are available to significantly reduce bacterial count in effluent.</i>	50%

An aerial photograph of a large body of water, likely a lake or bay, showing a significant oil spill. The spill is visible as a vibrant, multi-colored streak (rainbow colors) cutting through the dark blue water. The spill originates from a point on the shore and spreads outwards. The background shows a dark, forested area. The text is overlaid on the upper portion of the image.

## **HANDLES THE TOUGHEST ENVIRONMENTAL HOT SPOTS**

- ✓ Municipal maintenance yards
- ✓ Busy intersections
- ✓ Parking lots
- ✓ Gas stations
- ✓ Industrial yards
- ✓ Vehicle service centers
- ✓ Wash bays
- ✓ Marinas

A circular inset in the lower half of the page shows a close-up view of a water surface. The water is dark and appears to have some ripples or a slight disturbance. The inset is centered horizontally and vertically within the lower half of the page.

[www.ecosenseint.ca](http://www.ecosenseint.ca)