ecostornis









ecoStorm® plus is an affordable stormwater filtration system designed to remove sediments, heavy metals and nutrients.

ecoStorm°plus |TSS removes

Particulate and Dissolved Nutrients **Phosphorus Nitrates**

Particulate and Dissolved Heavy Metals

Cadmium Zinc Chromium Copper Nickel Lead

Benefits of the | Small Footprint ecoStorm° plus

Cost Effective

Maintainable

Filters can be regenerated with backflushing



Parking lots

Treatment of runoff from metal roofs (copper, zinc and others)

Industrial manufacturing facilities

Commercial/retail developments

Municipal/residential drainage improvements

Transportation/maintenance facilities

Water quality improvement of ponds/lakes



Removal Efficiency

Removal efficiencies for relevant pollutants meet or exceed typical standards for stormwater runoff.

Total Suspended Solids (TSS) >80% Zinc (Zn) >90% Lead (Pb) >95% >80% Copper (Cu) **Phosphorus** >60%

*Removal efficiencies for additional pollutants available upon request.



ecoStorm® plus units are equipped with a maintenance pipe allowing access to the sediment storage chamber. This pipe can also serve as an emergency overflow in heavy rainfall events when design treatment flows have been exceeded. While the standard ecoStorm® plus filter additives target removal of dissolved nutrients and heavy metals, the filter can be modified to remove various target pollutants.

ecoStorm® plus Treatment Process

Sedimentation and Filtration

Sediment is removed via hydrodynamic separation (gravity) and filtration. Up-flow filtration and scour by the inlet velocities promote self cleaning of the filter. Settled solids are isolated below the cyclonic separator to prevent resuspension.

Adsorption

The adsorptive properties of the filter provides for the removal of dissolved pollutants.

Chemical Precipitation

The filter buffers the pH of the stormwater, which is typically acidic, promoting precipitation and accumulation of dissolved substances. The fine pores of the filter allow water to seep slowly through the media providing greater opportunity for interaction between water and the alkaline composition of the filter.



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Royal Environmental Systems, Inc.

Royal Concrete Pipe, Inc.

Royal Erosion Control Systems, LLC

ecoStorm















Gravity separation stormwater treatment system

Gravity separation plus upflow adsorptive stormwater filtration

Catastrophic hydrocarbon spill control system

Below-grade, high efficiency oil/water separators

Above-grade, high efficiency oil/water separators

Sanitary sewer inside drop system

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