

*Stormceptor®*



**Stormceptor® System Overview**



## About Imbrium® Systems

Imbrium Systems is an engineered stormwater treatment company that designs and manufactures stormwater treatment solutions that protect water resources from harmful pollutants. By developing technologies to address the long-term impact of urban runoff, Imbrium ensures our clients' projects are compliant with government water quality regulations.

Imbrium products are sold through our network of value-added partners. These partners provide the highest level of service at every stage of your project.

To find your local Stormceptor representative please visit [www.imbriumsystems.com/localrep](http://www.imbriumsystems.com/localrep).

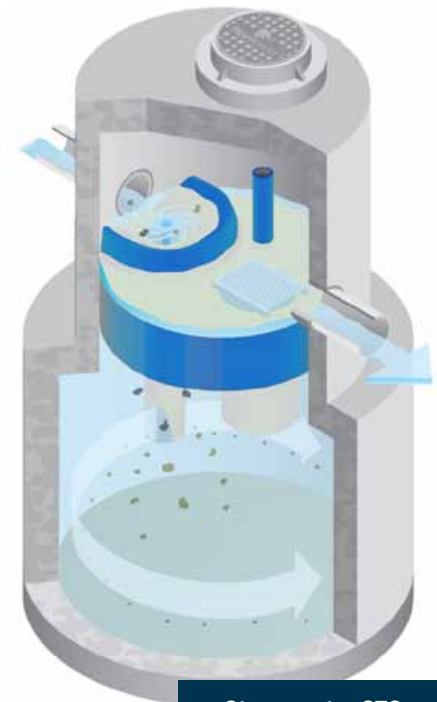


## Stormceptor® STC

Stormceptor STC is the recognized leader in stormwater treatment, offering a range of versatile treatment systems that effectively remove pollutants from stormwater and snowmelt runoff. Stormceptor is flexibly designed to protect waterways from hazardous material spills and stormwater pollution, including suspended sediment, free oils, and other pollutants that attach to particles, no matter how fierce the storm. Stormceptor's scour prevention technology ensures pollutants are captured and contained during all rainfall events.

### Ideal Uses

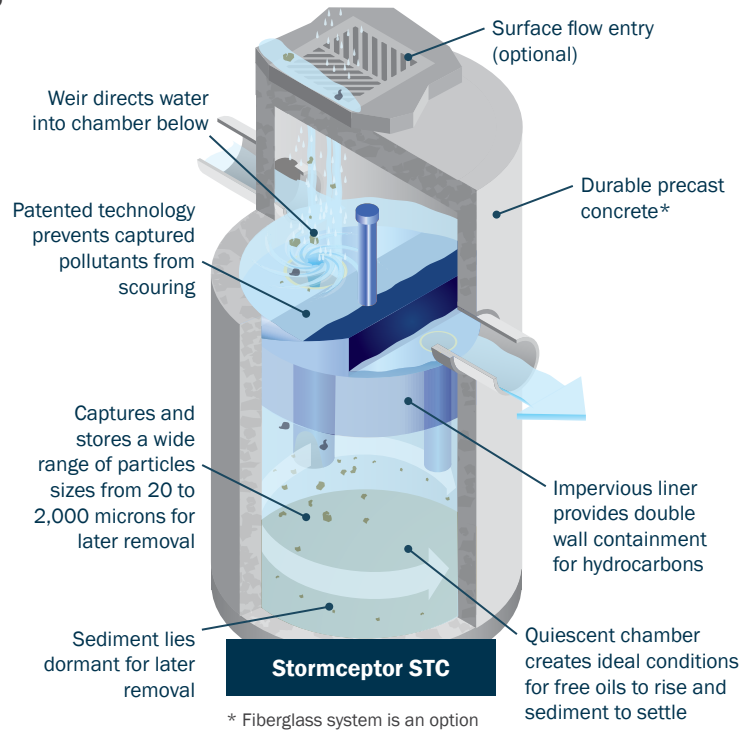
- Sediment (TSS) removal
- Spill control
- Debris and small floatables capture
- Pretreatment for filtration, detention/retention systems, ponds, wetlands, Low Impact Development (LID), green infrastructure, and water-sensitive urban design



Stormceptor STC

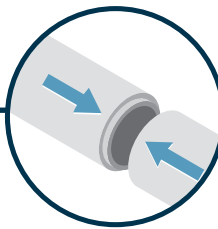
## How the Stormceptor® STC Works

- Stormwater enters the Stormceptor through the inlet pipe(s) or inlet grate. A specially designed insert slows the water down, pulling hydrocarbons, debris and sediment into a lower chamber
- The non-turbulent chamber allows free oils and floatable debris to rise and sediment to settle
- Free oils and other floatables remain trapped underneath the insert
- Sediment settles to the sump and is retained for later removal
- Stormceptor's scour prevention technology ensures pollutants are captured and contained during all rainfall events, even extreme storms
- Treated stormwater exits the unit via the outlet pipe



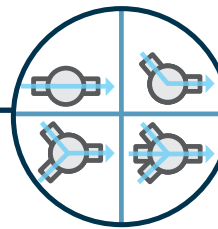
### EASY TO INSTALL

Small footprint saves time and money with limited disruption to your site.



### SEAMLESS

Minimal drop between inlet and outlet pipes makes Stormceptor ideal for retrofits and new development projects.



### FLEXIBLE

Multiple inlets can connect to a single unit. Can be used as a bend structure.

FEATURES	BENEFITS
1. Patented scour prevention technology	1. Superior pollutant removal and retention
2. Can take the place of a conventional junction or inlet structure	2. Eliminates the need for additional structures
3. Minimal drop between inlet and outlet	3. Site flexibility
4. Multiple inlets can connect to a single unit	4. Design flexibility
5. 3rd party tested and verified performance (Sediment & Oil)	5. Treatment with confidence

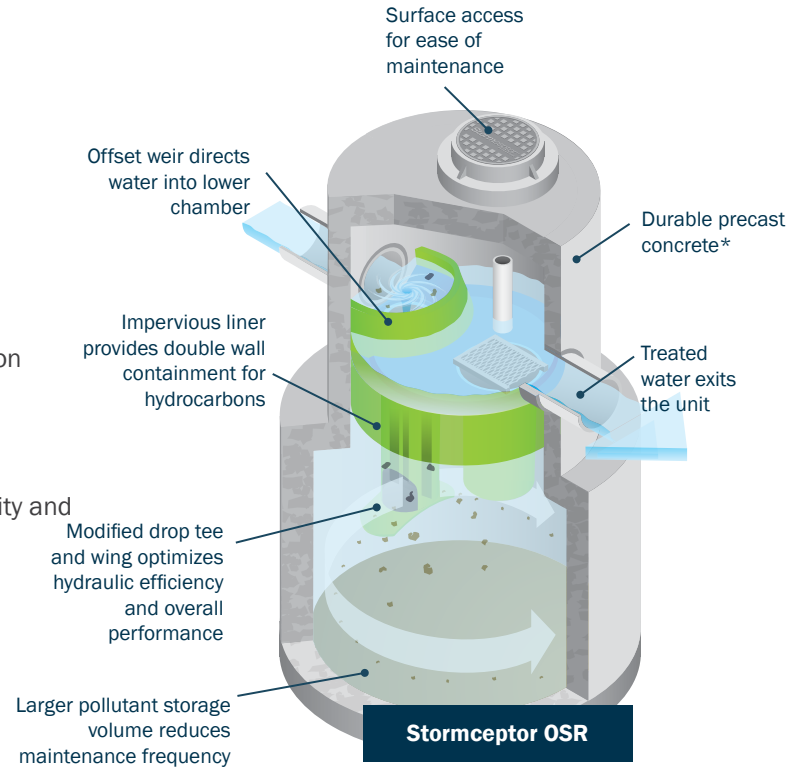
## ADDITIONAL MODELS

### Stormceptor® OSR

Engineered to meet stormwater quality requirements centered on capture of fine sand-sized particles.

#### BENEFITS

- Patented design is optimized for increased hydraulic capacity and fine sand-sized particle removal.
- 3rd party performance tested and verified.
- Ideal for pretreatment and redevelopment.

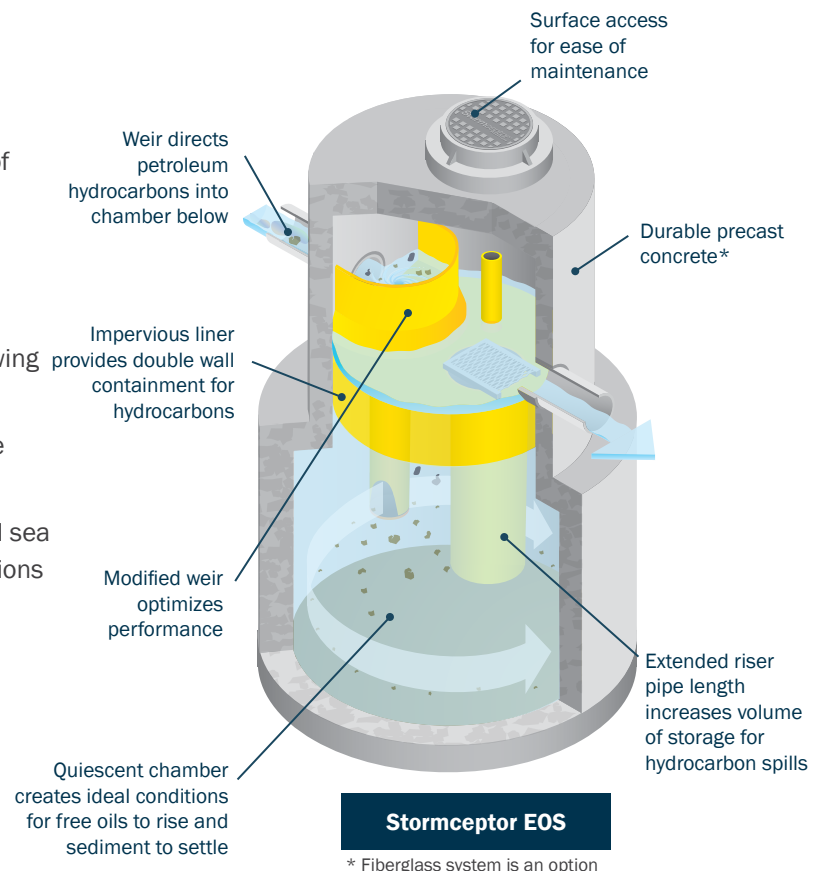


### Stormceptor® EOS

Engineered for dry weather spill protection by providing increased storage for the safe capture and containment of hydrocarbons.

#### BENEFITS

- Increased storage volume for safe oil containment.
- Creates a non-turbulent treatment environment, allowing oils to rise and remain captured.
- Optional oil alarm for spill occurrence or maintenance notification.
- Ideal for gas/petrol stations, fuel depots, airports and sea ports, garages, loading docks, high-collision intersections and other spill-prone areas.

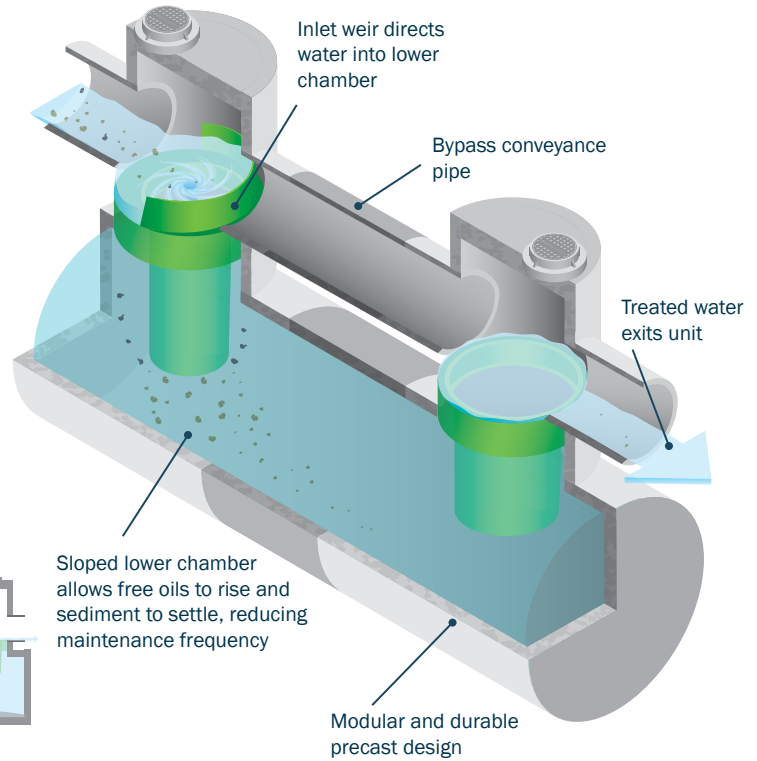


# Stormceptor® MAX

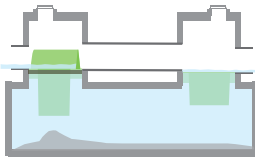
Stormceptor MAX expands the Stormceptor technology platform by use of its modular and expandable design to treat large drainage areas. Stormceptor MAX is commonly used in industrial sites, and urban retrofit and redevelopment projects.

## BENEFITS

- Designed to provide treatment for large drainage areas (20+ acres or 8 + hectares) and large spill volume capture (15,000+ gallons or 55,000+ liters).
- Flexible design that is modular and expandable, designed to fit your site.
- Bypass is incorporated directly into your drainage network.



# Stormceptor® MAX



**Stormceptor MAX** – provides stormwater treatment for a highway in Montreal, Québec, Canada



## Stormceptor® Approvals & Acceptance

With more than 20-years of industry experience and the most installations, Stormceptor is the most widely recognized and accepted stormwater treatment technology globally.

Stormceptor STC has been tested and verified by some of the most stringent technology evaluation organizations in North America, as well as globally. Stormceptor is approved through numerous State, Provincial, and Federal verification programs.

### STORMCEPTOR APPLICATIONS

Stormceptor is used to remove pollutants and provide spill protection, commonly in the following applications:

- Anywhere there is pavement and stormwater quality treatment is needed:
  - » Commercial sites
  - » Roadways/highways
  - » Municipal sites
  - » Airports/ports
  - » Gas stations and other fuel depots
  - » Military sites
  - » Residential development
  - » Industrial sites
- Retrofit projects
- Redevelopment projects
- Pretreatment to other stormwater management systems (retention/detention, filtration, ponds, LID, green infrastructure, water-sensitive urban design)



**Multiple Stormceptor STC units –** provides stormwater treatment and spill capture at the Delta Port in Vancouver, British Columbia, Canada

## Stormceptor® Options & Accessories

The following options and accessories are available for specific functions and site conditions:

- **Oil Alarm** – To mitigate spill liability through detention, a monitoring system can be employed to trigger a visual and audible alarm when an oil spill occurs.
- **Additional Oil Capture** – A draw-off tank can be incorporated to increase spill storage capacity.
- **High Load** – Standard design loading is CHBDC or AASHTO H-20. Specialized loading can be designed to withstand very high loadings typical of airports and port facilities.
- **Submerged / Tail Water** – This design is often implemented to provide treatment during tail water conditions when nearby lakes, rivers, and coastal areas.
- **Shallow Units** – Designs can accommodate shallow depths for sites with bedrock, high groundwater or other underground obstructions.
- **Lightweight** – Sites that required lightweight above ground units are available as fiberglass systems.



## Stormceptor® Maintenance

Conducted at grade, Stormceptor's design makes inspections and maintenance an easy and an inexpensive process. Once maintained, the Stormceptor is functionally restored as designed, with full pollutant capture capacity.

### MAINTENANCE RECOMMENDATIONS:

- Inspect every six months for the first year to determine the oil and sediment accumulation rate
- In subsequent years, inspections can be based on observations or local requirements
- Inspect the unit immediately after an oil, fuel or chemical spill. A licensed waste management company should remove oil and sediment and dispose responsibly.



Stormceptor maintenance is performed at grade with a standard vacuum truck



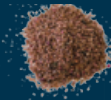
## FILTERRA BIORETENTION

The Filterra® Bioretention System is an engineered biofiltration device with components that make it similar to bioretention in pollutant removal and application, but has been optimized for high volume/flow treatment in a compact system.



## JELLYFISH FILTER

The Jellyfish® Filter is a stormwater treatment technology featuring pretreatment and membrane filtration in a compact stand-alone treatment system that removes a high level and a wide variety of stormwater pollutants.



## SORBTIVE MEDIA

Sorbitive® Media is an engineered media that adsorbs and retains large amounts of dissolved phosphorus. Sorbtive Media provides up to 1,000 times more pollutant removal capability than conventional filtration media, and unlike other media, it does not leach pollutants.

### LEARN MORE

- Call us at (888) 279-8826 or 301-279-8827 to talk to one of our engineers for technical support or design assistance.
- Visit [www.imbriumsystems.com/localrep](http://www.imbriumsystems.com/localrep) for contact information for your local Imbrium representative.

### PCSWMM FOR STORMCEPTOR - Advanced stormwater treatment sizing & design software

PCSWMM for Stormceptor is an online design tool that uses continuous simulation modelling to determine the most appropriate Stormceptor treatment system for your site.

PCSWMM for Stormceptor highlights:

- Region specific design – Localized rainfall data from over 1,900 NOAA weather stations across North America allow for region specific design
- Accessible – Within a single project, multiple Stormceptor units can be sized and the information revisited as project parameters change
- Fast – Easy to use online system allows for a quick turn around
- Optimal sizing – Unit sizing is based on your specific site conditions, including a variety of particle size distributions and targeted annual sediment removal
- Useful reports – Provides a summary report that includes projected performance calculations. Also available online is specifications and standard drawings; all of which can be used in client meetings and regulatory approvals.



[www.stormceptor.com/PCSWMMforStormceptor](http://www.stormceptor.com/PCSWMMforStormceptor)



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+1 416-960-9900

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Imbrium® Systems is an engineered stormwater treatment company that designs and manufactures stormwater treatment solutions that protect water resources from harmful pollutants. By developing technologies to address the long-term impact of urban runoff, Imbrium ensures our clients' projects are compliant with government water quality regulations. For information, visit [www.imbriumsystems.com](http://www.imbriumsystems.com) or call +1 416-960-9900.

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