



Ensure Optimal Stormwater System Performance through Regular, Professional Maintenance

It's Your Site. Have it Done Right.

Stormwater BMP Services

Inspection & Maintenance Services

Don't Risk Damaging Your Business Reputation

Maintain Your Stormwater BMP



Why is Stormwater BMP Maintenance Necessary?

- » Many stormwater permits require that stormwater Best Management Practices (BMPs) be maintained in order to be compliant
- » Commercial properties contributing runoff to municipal drainage lines can be held liable for discharge exceedances
- » BMPs that are not maintained will eventually reach treatment capacity and allow harmful pollution to discharge into local water bodies
- » Going long periods in between cleanouts can cost you more money than doing more frequent maintenance
- » Some commercial property lease agreements obligate renters to ensure their site is not polluting
- » Industrial permit holders have to continually discharge within allowed benchmark pollutant concentrations



Establish or Match Quality Standards for Your Community

You would never intentionally litter in your neighborhood or within the town or city that you work. A stormwater treatment BMP left uncleaned however will have the same effect as throwing garbage and other harmful pollutants into the lakes, rivers and oceans in your area. Other unintended consequences may include:

- » Harming local ecosystems
- » Negatively affecting regional fishing industry
- » Creating visual eyesores that affect tourism and local economy
- » Damaging your business reputation



Avoid the Unwanted Costs that Often Come with Delay

Those who put off maintenance are at greater risk of receiving a notice of violation and often pay more than those who consistently tend to system upkeep.



Stormwater Treatment BMP Systems Serviced by Hydro Can Save You Money

Avoid Service Negligence

Sanitation services providers not intimately familiar with stormwater treatment systems are at risk of the following:

- » Inadvertently breaking parts or failing to clean/replace system components appropriately
- » Charging you for more frequent maintenance because they lacked the tools to service your system properly in the first place
- » Billing you for replacement parts that might have been covered under your Hydro warranty plan
- » Charging for maintenance that may not yet have been required



Stormwater Treatment Systems

Stormwater BMPs are installed to prevent trash, debris and pollutants captured in stormwater runoff from reaching receiving water bodies and causing harm to ecosystems.

Just like your average dumpster needs to be emptied, stormwater treatment systems need to be cleaned out to prevent pollutant overflow. If you have a system on your site, ensure that it is regularly inspected and cleaned.





Why Choose Hydro?

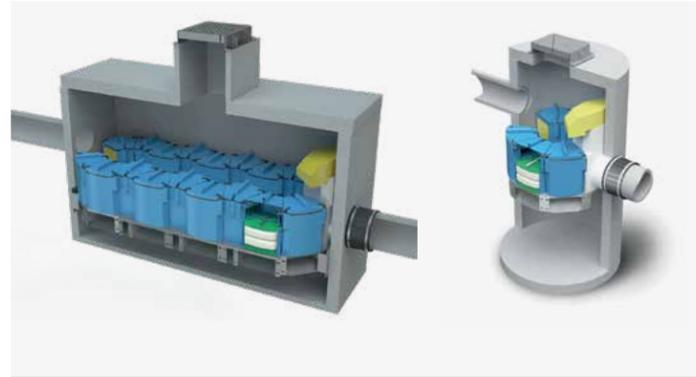
Hydro International has been engineering stormwater treatment systems for over 30 years. We understand the mechanics of removing pollutants from stormwater and how to keep systems running at an optimal level.

Call In the Experts to Get It Done Right

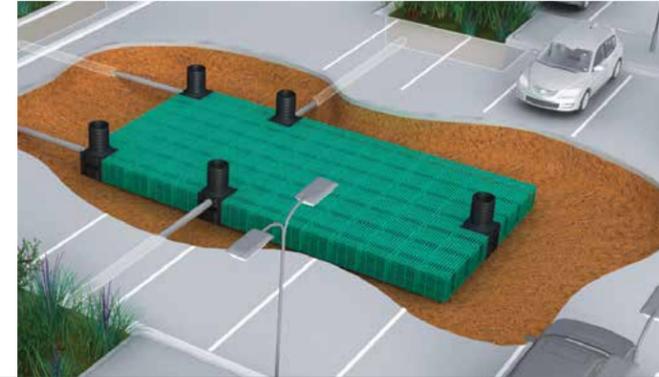
Nobody knows our systems better than we do or understands what a system needs in order to function properly.

Hydro Filters

Up-Flo® Filter



Storage Structures



Biofilters & Bioretention Systems

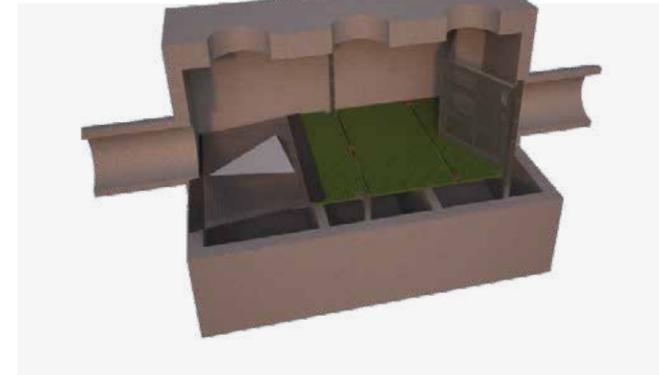


Catch Basins



Hydro Baffle Boxes

Hydro DryScreen®



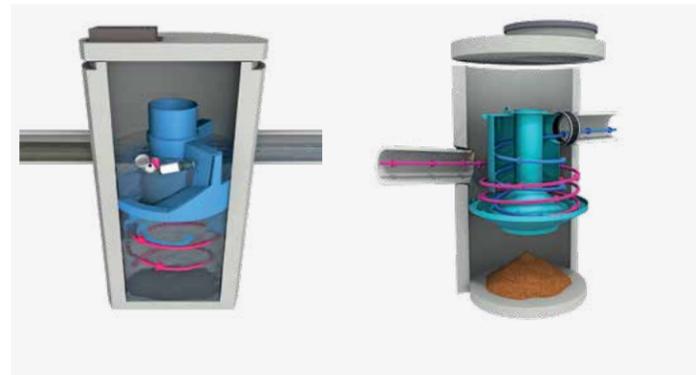
Stormwater Ponds



Hydro Separators

First Defense®

Downstream Defender®



Permeable Pavement



To learn more, visit hydro-int.com/service

Services

1. Inspection

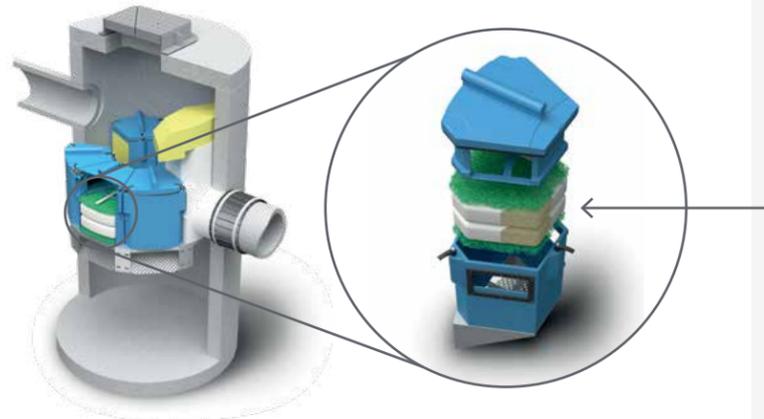
Regular system inspections, including an initial warranty inspection of assembly, are recommended to ensure that your system is performing at an appropriate treatment level.

A visual examination of your BMP from a Hydro treatment and maintenance specialist will allow us to establish:

- » **Pollutant Accumulation:** The amount of debris and pollutants in your system will allow us to determine if your BMP is at capacity and calculate how frequently maintenance will be required
- » **Proper Installation:** A system that is not installed properly will not treat and function as intended
- » **Operation Efficiency:** Evaluation of device treatment performance
- » **Pricing:** Your quote will be based on how much waste needs to be removed

2. Replacement Up-Flo® Filter Media Packs

Filter systems with media function very much the way domestic drinking water filters work. As water passes through them they capture pollutants and require periodic replacement in order to function properly.



Up-Flo® Filter by Hydro International

Media Filtration Systems

Compliance with your stormwater treatment permit requires using suitable Up-Flo® Filter replacement media bags from Hydro International to ensure the system is functioning as intended.



Up-Flo® Filter module media bag

Highly engineered Up-Flo® Filter media mix

3. Cleanout Services

Trash, sediment, and polluted water is stored inside treatment systems until they are removed by our team with a vactor truck (see Figure 1, next page). Sometimes teams must physically enter the system chambers in order to prepare the system for maintenance and install any replacement parts.

Services include are are not limited to:

-  Solids removal
-  Removal of liquid pollutants
-  Replacement media installation (when applicable)

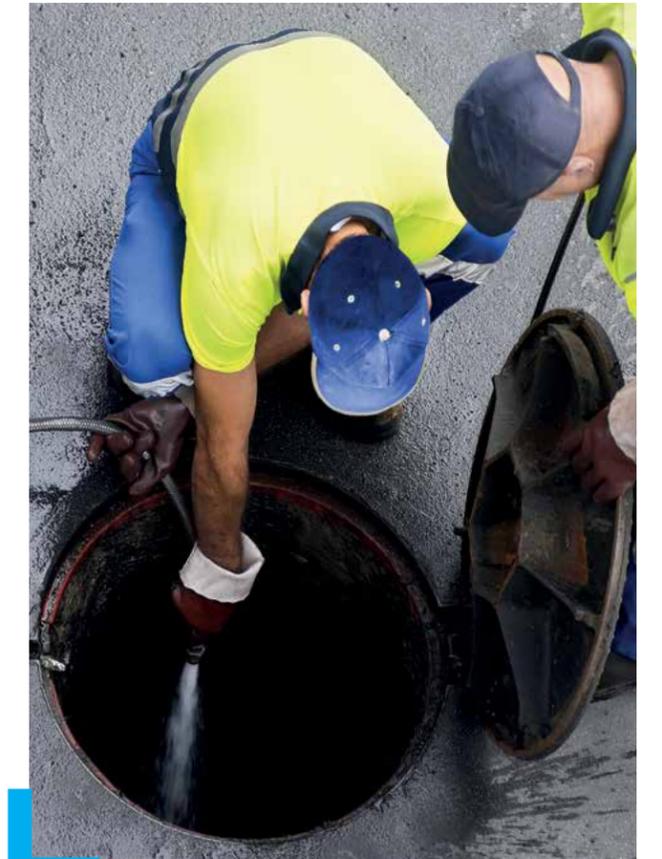
Count on Better Tools, and Better Results, with Hydro

Not all vactor trucks are created equal. Appropriate tools and suction power are needed to service stormwater systems appropriately.



4. Service Warranty

Make sure you're not paying for service that is covered under your warranty plan. Only Hydro International's service teams can identify tune-ups that should be on us, not you.



Media Filtration Systems

Up-Flo® Filter

Hydro International offers a variety of stormwater treatment Best Management Practices (BMPs) designed to remove trash, sediment and pollutants from the stormwater running off of your site. In order to keep these systems performing at an optimal level, they require periodic cleanout and replacement parts (where necessary). This document will provide you with a brief overview of Hydro International's BMP types, how to identify them and what is involved in their maintenance and cleanout.

The Up-Flo® Filter is comprised of several individual blue or gray cartridges filled with media bags that remove pollutants from stormwater. The number of cartridges inside your BMP is a reflection of the size of your drainage area and treatment requirements.

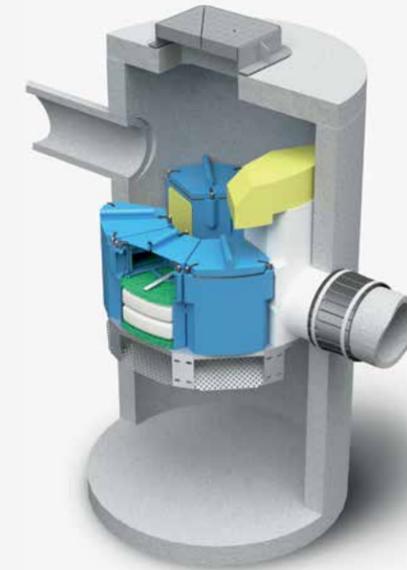


Figure 1

How do you know if you have an Up-Flo® Filter on your site?

Look for:

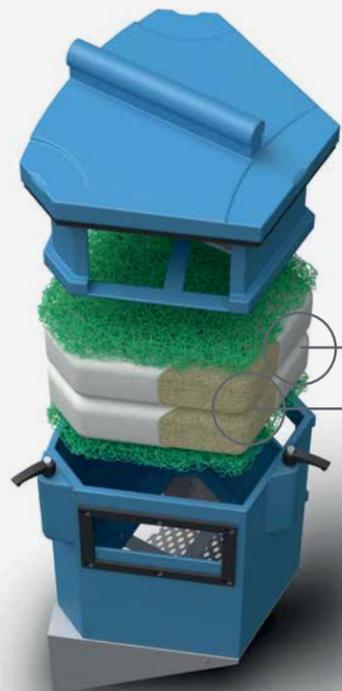
- » Multi-colored gray or blue filter modules with yellow, blue or white internal components
- » Comprised of individual module units that can be configured into a vault (Figure 1) or a rounded manhole (Figure 4).
- » Your Hydro International manhole lid



Multi-Color Units

Filter systems with media (Figure 3) function very much the way domestic drinking water filters work. As water passes through them they capture pollutants and require periodic replacement in order to function properly.

Replacement Parts



Up-Flo® Filter module



Figure 2

Up-Flo® Filter media bag



Figure 3

Up-Flo® Filter media mix (found inside of bag)

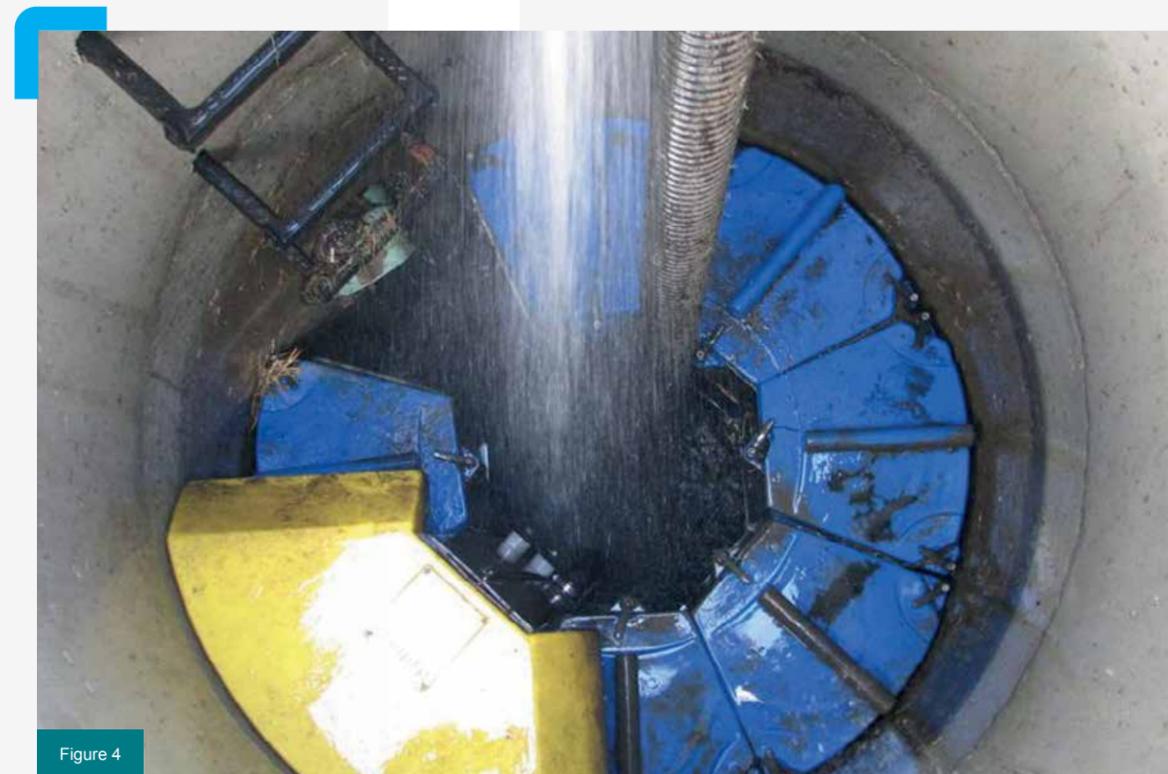


Figure 4

Here's what a rounded manhole configuration can look like

Compliance with your stormwater treatment permit requires using suitable Up-Flo® Filter replacement media bags from Hydro International to ensure the system is functioning as intended (Figure 2).

Sediment & Trash Separating Systems

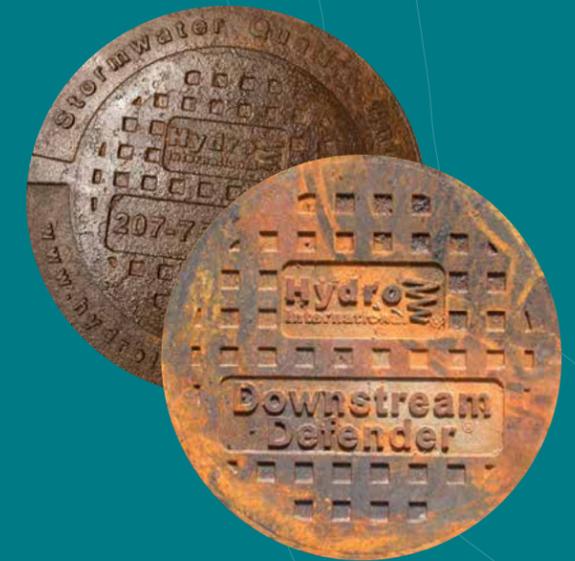
First Defense® & Downstream Defender® Stormwater Separators

The Downstream Defender and First Defense units are designed to remove trash and sediment from stormwater. They are cleaned out using a vactor truck. No spare parts are required as part of typical maintenance.

Look for a Hydro International Manhole Lid on your site

Does your System need a Cleanout?

Call for an Estimate at 1-888-382-7808



How do you know if you have a First Defense or Downstream Defender on your site? Look for:

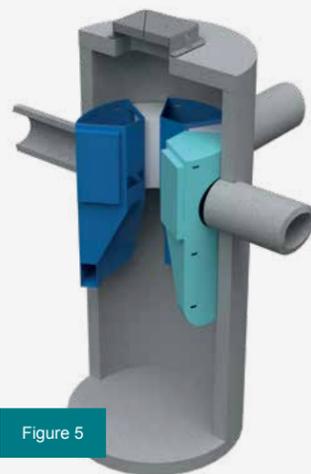


Figure 5

First Defense®

- » Multi-colored blue/white units
- » Open internal components (see Figures 5 & 11)

Multi-Color Units

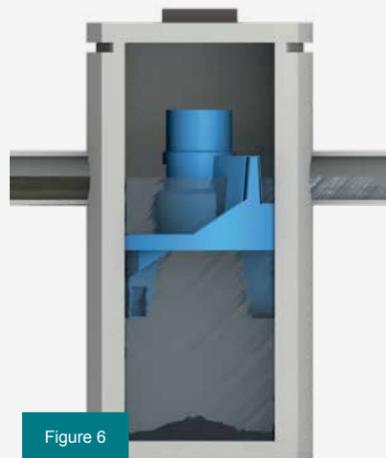


Figure 6

First Defense® High Capacity

- » Solid colored units
- » Closed top with a half wall separator (see Figure 6)

Solid Color Units

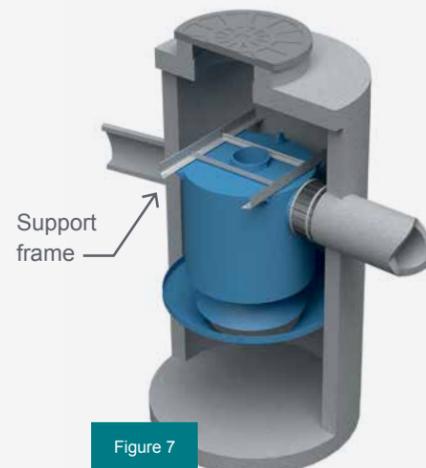


Figure 7

Downstream Defender®

- » Solid colored units
- » Closed top with metal support frame (see Figures 7, 9, & 10)

Solid Color Units



Figure 8



Figure 9



Figure 10



Figure 11



Hydro Will Help You Do it Right the First Time

Stormwater BMP System Services | Inspection & Maintenance Services



Learn more at
hydro-int.com/service



Call 1-888-382-7808
to Schedule an Inspection

Stormwater Maintenance Solutions

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