





The experts you need to solve your stormwater challenges

Contech is the leader in stormwater solutions, helping engineers, contractors and owners with infrastructure and land development projects throughout North America.

With our responsive team of stormwater experts, local regulatory expertise and flexible solutions, Contech is the trusted partner you can count on for stormwater management solutions.

Your Contech Team









STORMWATER CONSULTANT

It's my job to recommend the best solution to meet permitting requirements.

STORMWATER DESIGN ENGINEER

I work with consultants to design the best approved solution to meet your project's needs.

REGULATORY MANAGER

I understand the local stormwater regulations and what solutions will be approved.

SALES ENGINEER

I make sure our solutions meet the needs of the contractor during construction.

Contech is your partner in stormwater management solutions



Removing Pollutants using Hydrodynamic Separation

HDS systems play a vital role in protecting our waterways by removing high levels of sediment, trash, debris, and hydrocarbons from stormwater runoff.

Frequently used as end-of-pipe solutions, they are also used to provide stormwater quality treatment in places where space is limited.

HDS systems capture and retain a variety of stormwater pollutants and are very easy to maintain. These two key benefits have resulted in new uses for HDS technologies, such as pretreating detention, Low Impact Development, and green infrastructure practices, as well as other land-based stormwater treatment systems. Utilize high-performance hydrodynamic separation to effectively remove finer sediment, oil and grease, and floating and sinking debris.





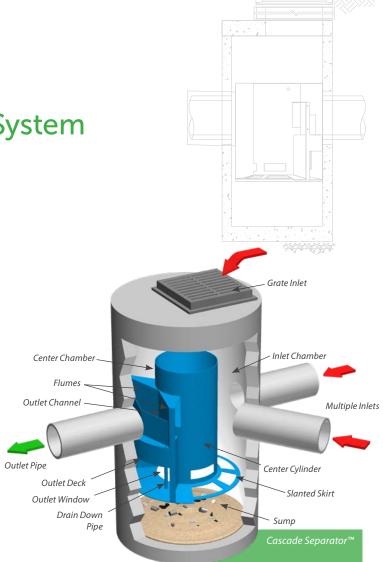


The Cascade Separator[™] System

Advanced Sediment Capture Technology ...

The Cascade Separator™ is the newest innovation in stormwater treatment from Contech. The Cascade Separator was developed by Contech's stormwater experts using advanced modeling tools and Contech's industry leading stormwater laboratory.

This innovative hydrodynamic separator excels at sediment capture and retention while also removing hydrocarbons, trash, and debris from stormwater runoff. What makes the Cascade Separator unique is the use of opposing vortices that enhance particle settling and a unique skirt design that allows for sediment transport into the sump while reducing turbulence and resuspension of previously captured material. These two factors allow the Cascade Separator to treat high flow rates in a small footprint, resulting in an efficient and economical solution for any site.



FEATURE	BENEFIT			
Unique skirt design & opposing vortices	Superior TSS removal; reduced system size and costs			
Inlet area accepts wide range of inlet pipe angles	Design and installation flexibility			
Accepts multiple inlet pipes	Eliminates the need for separate junction structure			
Grate inlet option	Eliminates the need for a separate grate inlet structure			
Internal bypass	Eliminates the need for a separate bypass structure			
Clear access to sump and stored pollutants	Fast, easy maintenance			

Learn More: www.ContechES.com/cascade

CASCADE MAINTENANCE

Cascade provides unobstructed access to stored pollutants, making it easy to maintain using a vacuum truck, with no requirement to enter the unit.

Setting new standards in Stormwater Treatment

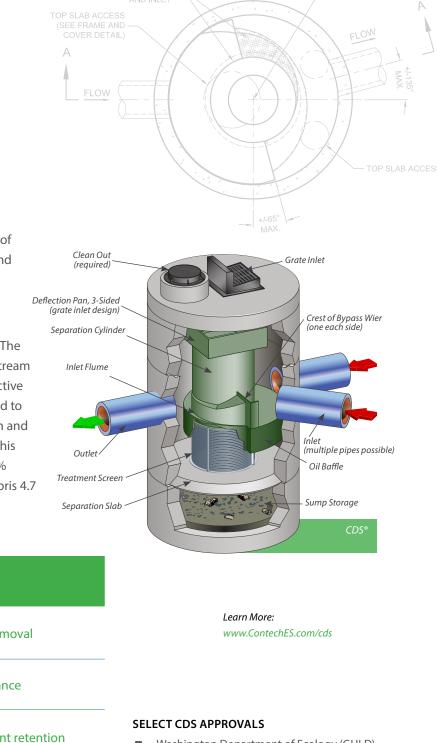
The CDS® System

Superior Trash Removal ...

FEATURE

The CDS is a hybrid technology that uses a combination of swirl concentration and indirect screening to separate and trap trash, debris, sediment, and hydrocarbons from stormwater runoff.

At the heart of the CDS system is a unique screening technology used to capture and retain trash and debris. The screen face is louvered so that it is smooth in the downstream direction. The effect created is called "Continuous Deflective Separation." The power of the incoming flow is harnessed to continually shear debris off the screen and to direct trash and sediment toward the center of the separation cylinder. This results in a screen that is self-cleaning and provides 100% removal of floatables and neutrally buoyant material debris 4.7 mm or larger, without blinding.



Superior trash removal			
Ease of maintenance			
Excellent pollutant retention			
Eliminates the need for additional structures			
Design flexibility			
Fast, easy maintenance			

BENEFIT

- Washington Department of Ecology (GULD)
 Pretreatment
- New Jersey Department of Environmental Protection Certification (NJ DEP)
- Canadian Environmental Technology Verification (ETV)
- California Statewide Trash Amendments
 Full Capture System Certified*

* The CDS System has been certified by the California State Water Resources Control Board as a Full Capture System provided that it is sized to treat the peak flow rate from the region specific 1-year, 1-hour design storm, or the peak flow capacity of the corresponding storm drain, whichever is less.



The Vortechs® System

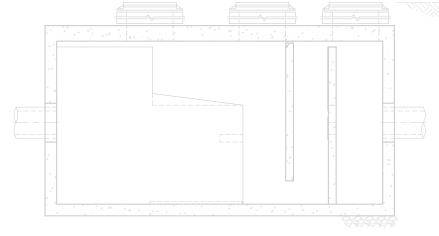
Stormwater Treatment in a Shallow Footprint

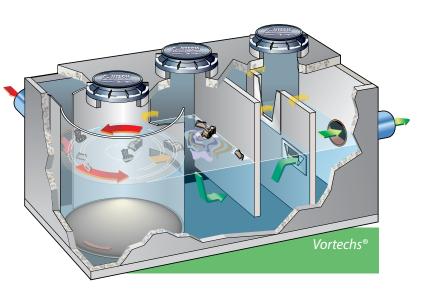
Vortechs combines swirl concentration and flow controls into a single treatment unit that captures and retains trash, debris, sediment, and hydrocarbons from stormwater runoff.

The Vortechs system's large swirl chamber and flow controls work together to create a low energy environment, ideal for capturing and retaining particles down to 50 microns.

Vortechs is the ideal solution for sites with high groundwater, bedrock, utility conflicts, or sites with a large volume runoff.

The Vortechs System is approved by the Washington Department of Ecology (GULD) - Pretreatment.





Learn More: www.ContechES.com/vortechs

FEATURE	BENEFIT
Large swirl chamber	Fine particle removal down to 50 microns
Shallow profile – Typical depth below pipe invert is only 3 feet.	Can be used on sites with high groundwater, bedrock, or utility conflicts
Unobstructed access to stored pollutants	Fast, easy maintenance

TOP SLAB ACCESS (SEE FRAME AND -COVER DETAIL)

HDS Product Design Worksheet



APPLICATION TIPS

- HDS systems with internal peak bypass weirs can provide cost savings by eliminating the need for additional structures.
- Pretreating detention, infiltration, and green infrastructure practices with HDS can protect downstream structures and provide for easy maintenance.
- HDS systems are often an ideal solution for retrofit applications due to their compact footprint and configuration flexibility.

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PIPE * BRIDGES AN	D STRUCTURES *	STORMWATE	R MANAGEMENT 🔻	EROSION CONT	ROL * START A	PROJECT - KNOWL	EDGE CENTER *	TECHNICAL GUIDES	
Project Design Worksheet - Stormwater Treatment After submitting your worksheet a Stormwater Design Engineer will review and contact you shortly regarding your request. Project Information (Fill out as much as possible)									
Project Name:*			Site Plan Available:	~			1977		
Project Location:*			Regulatory Agency:			Online or Offline?		~	
Deliverable Request	C Desig Assist	ance		Drawing	🗆 Quote	C Rush Request	□ LEED Cert.		
Design Sp	ecificat	ons (Fi	ll out as mu	ich as po	ssible)				
Treatment Flow (Water Quality Flow)(cfs or L/s): *			Drainage Area (ac or ha):*			Storm Frequer Design (yr):	псу		
Peak Flow {cfs or L/s}:			% Impervious o 'c' value:*	r					
Upstream Detention:		~	PSD specified o d50 (microns):	r		Oil Storage / Removal Req'o	i:	v	
TSS EMC Influent (m	g/L):			TPI	EMC Influent (mg/	'L):			
Inlet Invert El	let Invert Elev. Treatment		Outlet Inv	Outlet Invert Elev.					
Upstream Structure:		~	Treatment Structure:		~	Downstream Structure:		~	

Learn More:

www.ContechES.com/pdw-treatment

Our in-house team of engineers can support you through the entire permitting process - and the first step is sending us your project information by filling out one of the Project Design Worksheets. We will forward your information to an in-house engineer who will contact you with specific recommendations for your project.

The free tool is available at www.ContechES.com/pdw-treatment



A partner





STORMWATER SOLUTIONS



Few companies offer the wide range of highquality stormwater resources you can find with us — state-of-the-art products, decades of expertise, and all the maintenance support you need to operate your system cost-effectively.



THE CONTECH WAY

Contech® Engineered Solutions provides innovative, cost-effective site solutions to engineers, contractors, and developers on projects across North America. Our portfolio includes bridges, drainage, erosion control, retaining wall, sanitary sewer and stormwater management products.

TAKE THE NEXT STEP

For more information: www.ContechES.com

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STRUCTURES