









The experts you need to solve your

stormwater management challenges



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

Stormwater management is becoming ever more complex as regulations get more strict with each permit cycle. It's no longer enough to simply move water away from a site — we are now often required to retain and treat it. Traditional methods and BMP's simply aren't enough.

To succeed in this rapidly changing environment, you need a partner to help you navigate the complexities of local, state and federal regulations — who is responsive to your requests and provides innovative solutions that save your clients money and accelerate the design process.

In addition to stormwater expertise, Contech offers a wide range of innovative, flexible product solutions engineered to solve your site's unique challenges and reduce long term maintenance costs. From traditional BMP's to LID solutions, our ongoing investment in robust laboratory and field evaluations ensure we have a variety of solutions to comply with local regulations so your projects get approved the first time.

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



STORMWATER CONSULTANT

I work with you to recommend the best solution to meet permitting requirements



STORMWATER DESIGN ENGINEER

I help develop your final design and deliverables



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

DESIGN

Provides engineers with technically focused recommendations



- Preliminary product recommendations
- Feasibility screening
- Layout assistance
- Cost estimates and options analysis

SPECIFICATION

Helps engineers develop an efficient solution



- Engineering calculations
- Specifications
- Site-specific drawings
- Submittal packages

PERMITTING

Makes sure all recommendations are approved locally



- Product approvals
- Regulatory stakeholder engagement
- Field and lab evaluation
- Project-specific regulatory support

INSTALLATION

Supports contractors and owners through the entire process

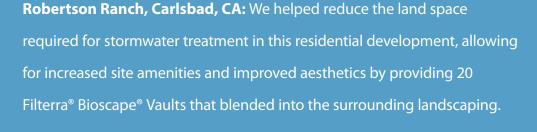


- Pricing and value engineering assistance
- · Project coordination
- Installation guidance
- Issue resolution
- Customer service



EXAMPLES OF SUCCESSFUL PROJECTS WE HAVE BEEN INVOLVED IN:







United Airlines Terminal, Houston, TX: Engineers first considered a

12-foot hydrodynamic separator from a competitor, but we showed how
our smaller, eight-foot CDS® could meet the regulatory requirements of 70%
TSS removal and lower costs for the owner.



U.S. Bank Stadium, Minneapolis, MN: Being built downtown, there was limited footprint for stormwater storage. We worked with the engineer to design a 144" diameter perforated, corrugated metal pipe retention system that provided the required storage in a constrained footprint.



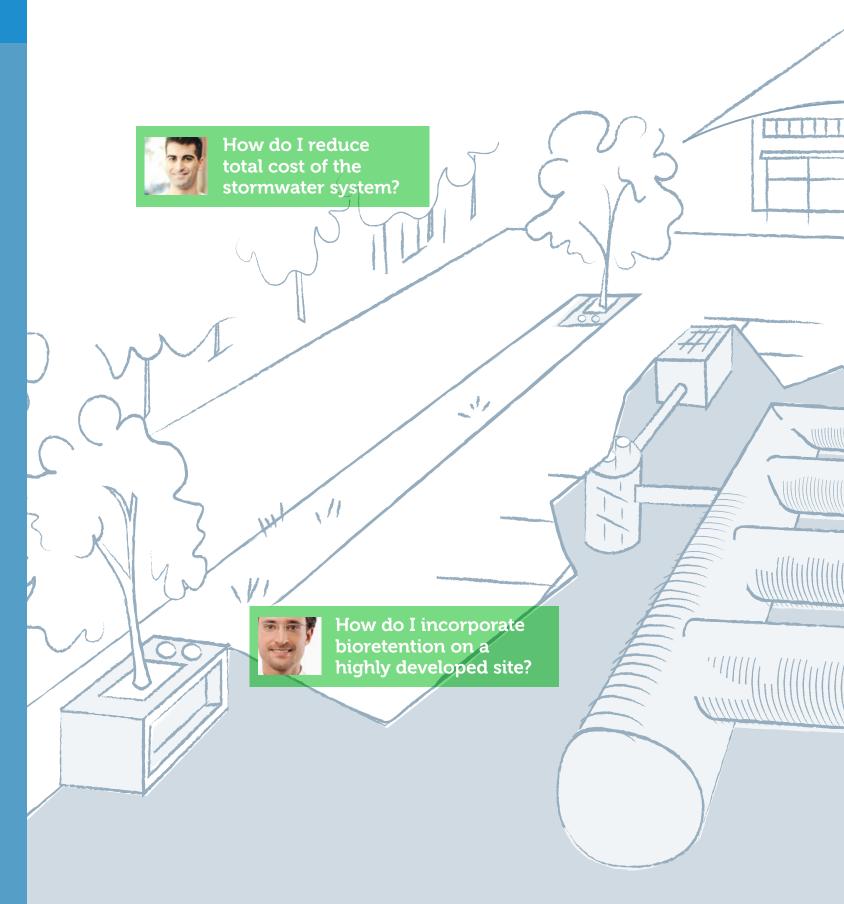
Crossroads Parkway, City of Industry, CA: We provided seven Filterra®

Bioretention Systems to meet the biofiltration requirement of
the Los Angeles County MS4 permit; reducing the BMP footprint required in
this highly developed, high land value site.

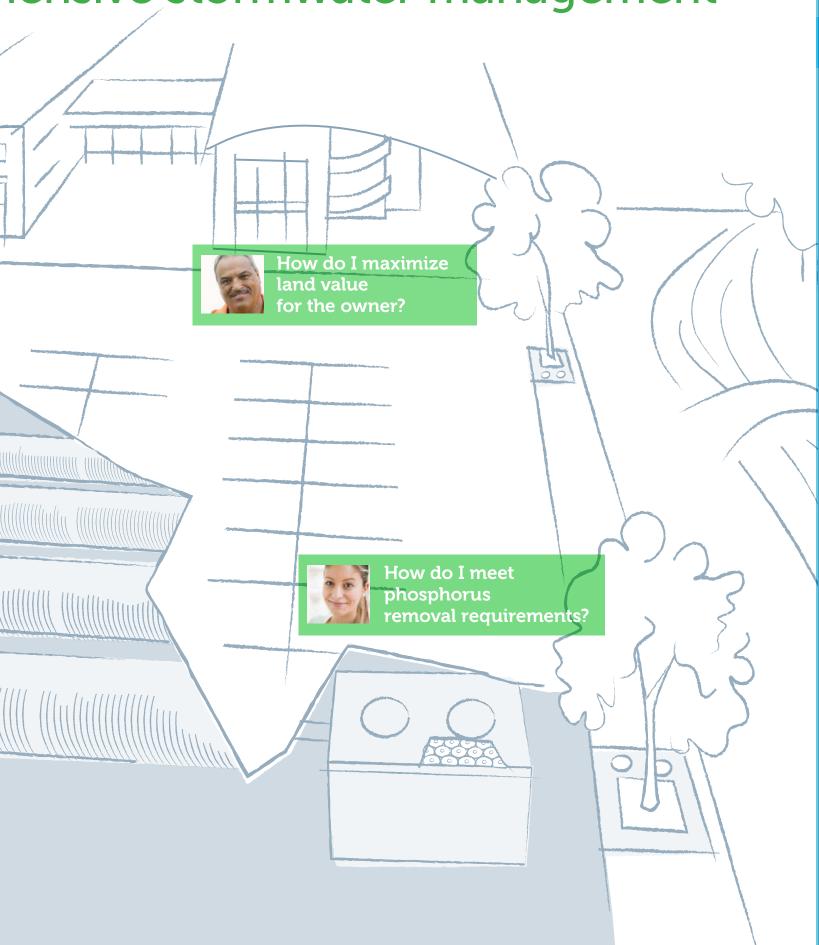


SR-28 Improvements, Incline Village, NV: A Jellyfish® Filter was installed to remove nutrients and fine sediment particles less than 16 microns to help improve the water quality of runoff entering Lake Tahoe.

Everything you need for comprel



nensive stormwater management



CHECK OUT ADDITIONAL CASE STUDIES ON OUR WEBSITE - WWW.CONTECHES.COM/CASESTUDIES

City of San Jose, CA: We helped the City meet "Full Capture" trash regulations by providing seven CDS® hydrodynamic separators. Over 5,000 acres of San Jose is now protected by CDS systems, and trash from these areas will no longer make it into San Francisco Bay.

Walgreens, Ewing Township, NJ: We addressed invert constraints of the existing infrastructure and met regulatory requirements of 80% TSS removal using a CDS® hydrodynamic separator, a Peak Diversion Stormwater Management StormFilter® and a Jellyfish® Filter.

LaQuinta Inn, Portland, Maine: We helped solved a flooding problem and cut installation time in half by recommending an underground detention system CMP as an alternative solution to plastic crates. A combination of 84" and 96" CMP was used to provide 100,283 cf of storage in a very limited footprint.

Jaguar Land Rover, San Diego, CA: We provided an UrbanPond® concrete detention system and a Modular Wetlands Linear® Bioretention system to provide a hydraulically connected treatment train for a new 2.9-acre car dealership.

Bucks County Justice Center, Doylestown, PA: The contractor was under a tight timeline to get this project completed on time. We helped retrofit the existing site with seven Filterra® Bioretention Systems. All seven systems were installed and activated in a total of two days.











Bioretention



Bioretention and biofiltration use the physical, chemical and biological mechanisms found in nature to capture and filter stormwater. Providing both water quantity and quality benefits, biofiltration is ideal for Low Impact Development (LID), Green Infrastructure, and Environmental Site Design projects. Plus, the presence of plants increases biological activity and enhances the appearance of your site.

The Filterra® Bioretention System is an engineered, prepackaged bioretention system incorporating high performance biofiltration media and plants. Its high media flow rate reduces the footprint significantly when compared with traditional bioretention systems and allows for easy integration into highly developed sites such as commercial areas, residential communities, parking lots and streetscapes.

Learn more:

www.ContechES.com/filterra



- Modular, prefabricated bioretention systems like the Filterra® and Modular Wetlands® Linear can be used for both new construction and urban retrofits.
- They can be deployed in a variety of applications, both standalone and as part of an overall site plan (with other stormwater control techniques).
- Filterra and Modular Wetlands Linear meet regulatory requirements for the removal of TSS, nutrients, and metals.



SELECT APPROVALS	FILTERRA	MODULAR WETLANDS LINEAR	
Washington Department of Ecology (GULD) – Basic, Enhanced, Phosphorus, and Oil	√	✓	
New Jersey Department of Environmental Protection (NJDEP)	✓	✓	
Virginia Department of Environmental Quality (VA DEQ)	✓	√	
Maryland Department of the Environment - Environmental Site Design (ESD)	√	✓	
Texas Commission on Environmental Quality (TCEQ)	√	✓	
Atlanta, GA Regional Commission	√	√	
California Water Resources Control Board, Full Capture Certification	√	✓	
City of Portland, Oregon Bureau of Environmental Services	√	√	









Detention



Detention and infiltration involves the use of vaults, chambers and pipes to temporarily store runoff. These structures often have open bottoms or perforations, allowing the excess water to be released slowly over time. In urban environments where there are competing demands for land, underground storage can provide many of the benefits of landscape-based systems but without requiring dedicated land area, thus maximizing the land value for the owner.

Subsurface infiltration in urban environments meets the objectives of LID by reducing runoff and recharging groundwater.



- Our online Design Your Own Detention System (DYODS) Tool provides instant access to project specific drawings for the creation of plans and specifications.
- Corrugated metal pipe (CMP) is the most economical solution for underground storage.
- Increasing the depth of a detention system allows for more storage in the same footprint. Doubling the diameter of pipe yields four times as much storage volume in the pipe and reduced excavation and backfill costs.
- Outlet control devices
 can be incorporated
 within a CMP detention
 system, saving money by
 eliminating the need for a
 separate structure.
- A pretreatment device can prolong the life of a detention system by removing debris and sediment that can collect on the invert and within the stone backfill voids.
- Reduced long term
 maintenance or
 replacement cost of the
 infiltration system can
 help offset pretreatment
 construction costs.











CANTECH° CMP DETENTION SYSTEMS

Corrugated metal pipe is the "go to" material for the majority of detention and infiltration projects and can be sized and shaped to meet site-specific needs.

Learn more:

www.ContechES.com/dyods

CHAMBER Maxx

Our ChamberMaxx® system is a corrugated, open-bottom plastic infiltration chamber providing economic infiltration below grade.

Learn more:

www.ContechES.com/chambermaxx

Dur Maxx

DuroMaxx® steel reinforced polyethylene (SRPE) pipe combines steel and polyethylene to make an exceptionally strong and durable pipe that can be made watertight.

Learn more:

www.ContechES.com/duromaxx

DuroMaxx Rainwater Harvesting Cisterns are available in sizes up to 120 inches in diameter and are leak tested and certified to be in compliance with the Uniform Plumbing Code (UPC®) to ensure a reliable long term storage solution.

Learn more:

www.ContechES.com/rwh

UrbanPondConcrete Detention

UrbanPond® Concrete Stormwater
Detention Systems combine a large
storage volume with fast installation.

Learn more:

www.ContechES.com/urbanpond



Filtration



Stormwater filtration systems use media or membranes to remove total suspended solids (TSS), hydrocarbons, nutrients, metals, and other common pollutants from stormwater runoff. They can be housed in a vault, manhole, or catch basin and are used for both commercial and residential development, redevelopment, and stormwater quality retrofit applications. They can also provide pretreatment for Low Impact Development, infiltration, and rainwater harvesting systems.

The Stormwater Management
StormFilter* has been field tested
more than any other manufactured
stormwater filtration device. Its
performance has been verified by the
State of Washington Department of
Ecology and New Jersey Department
of Environmental Protection.

See the StormFilter in action: www.ContechES.com/stormfilter



- For applications targeting phosphorus, Contech® developed PhosphoSorb®, a filter media designed to remove both dissolved and particulate phosphorus.
- All filters will require
 periodic maintenance to
 to maintain water quality
 standards. Selecting
 a device with a long
 maintenance cycle and
 low maintenance cost will
 result in healthy waterways
 and happy property
 owners





HC KRAKEN®

The HC Kraken® utilizes advanced membrane filtration to ensure a high level of removal of total suspended solids (TSS), phosphorus, nutrients, metals, and trash. Available in vault and manhole configurations, the Kraken filters are lightweight and reusable, providing maximum performance and reduced long term maintenance costs.

Learn more:

www.ContechES.com/kraken

Jellyfish® Filter

Jellyfish® Filter is a stormwater quality treatment technology featuring high flow pretreatment and membrane filtration in a compact standalone system. The design treatment flow rate can be up to 80 gpm per cartridge.

Learn more:

www.ContechES.com/jellyfish

SELECT APPROVALS / CERTIFICATIONS	JELLYFISH FILTER	HC KRAKEN FILTER	STORMFILTER
Washington Department of Ecology (TAPE) (GULD) – Basic, Phosphorus	✓	√	√
New Jersey Department of Environmental Protection (NJDEP)			√
North Carolina Department of Environmental Quality (NC DEQ)			✓
Sacramento Stormwater Quality Partnership (SSQP)			√
Maryland Department of the Environment (MD DOE)	✓		✓
Texas Commission on Environmental Quality (TCEQ)	✓		√
Virginia Department of Environmental Quality (VA DEQ)	✓		√
Canadian ISO 14034 Environmental Management – Environmental Technology Verified (ETV)	✓		√
Maine Department of Environmental Protection (ME DEP)	√		√
St. Louis Metropolitan Sewer District			✓



Hydrodynamic



Hydrodynamic separators effectively remove sediment, hydrocarbons, trash and debris from stormwater runoff. These systems are often used as standalone and end-of-pipe treatment in both new and retrofit applications. They are also used as pretreatment to detention, infiltration, reuse and biofiltration to increase the service life of these systems by removing pollutants upstream.

Contech® hydrodynamic separation products have been providing reliable stormwater treatment for more than 20 years. Whatever your site constraints may be, Contech's family of HDS systems has you covered.



SciCloneX



- The Cascade Separator® is optimized to capture and retain sediment resulting in a small footprint treatment device.
- Both CDS® and DSBB™
 use non-blocking screen
 technology to capture and
 retain trash and debris
 from stormwater runoff.
- SciCloneX® has achieved an industry-leading hydraulic loading rate compared to other NJDEP certified HDS





DEBRIS SEPARATING BAFFLE BOX

The Debris Separating Baffle Box (DSBB™) combines gravity separation and non-blocking screen technology to capture 100% of trash and debris equal to or greater than 5 mm in diameter and meets the California Regional Water Quality Control Board Full Capture Certification Requirements.

Learn more:

www.ContechES.com/dsbb

CASCADE separator®

The Cascade Separator® is the latest innovation in hydrodynamic separation from Contech. The Cascade uses advanced sediment capture technology to provide the highest sediment removal efficiency of any Contech HDS product. Cascade also captures trash and hydrocarbons.

Learn more:

www.ContechES.com/cascade

SELECT CERTIFICATIONS	CASCADE	CDS	DSBB	SCICLONEX	VORTECHS
Washington Department of Ecology (GULD) - Pretreatment		√			√
New Jersey Department of Environmental Protection (NJDEP)	√		√	√	
Canadian Environmental Technology Verification (ETV)		✓			
California Statewide Trash Amendments Full Capture System Certified		J	√		



A partner









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.

NOTHING IN THIS CATALOG SHOULD BE CONSTRUED AS A WARRANTY, APPLICATIONS SUGGESTED HEREIN ARE DESCRIBED ONLY TO HELP READERS MAKE THEIR OWN EVALUATIONS AND DECISIONS, AND ARE NEITHER GUARANTEES NOR WARRANTIES OF SUITABILITY FOR ANY APPLICATION. CONTECH MAKES NO WARRANTY WHATSOEVER, EXPRESS OR IMPLIED, RELATED TO THE APPLICATIONS, MATERIALS, COATINGS, OR PRODUCTS DISCUSSED HEREIN. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY CONTECH. SEE CONTECH'S CONDITIONS OF SALE (AVAILABLE AT WWW.CONTECHES.COM/COS) FOR MORE INFORMATION.

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

Contact your local representative: www.ContechES.com/localresources



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