



14th Annual Regional Stormwater Conference
October 9-11, 2019 – Chattanooga, TN































































SeSWA Southeast
Stormwater
Association



































CULTEC
STORMWATER MANAGEMENT SOLUTIONS
RETENTION - DETENTION - INFILTRATION - WATER QUALITY

CULTEC
STORMWATER MANAGEMENT SOLUTIONS
RETENTION - DETENTION - INFILTRATION - WATER QUALITY

CULTEC
STORMWATER MANAGEMENT SOLUTIONS
RETENTION - DETENTION - INFILTRATION - WATER QUALITY

Take a
360°
View

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- Man...
- Use...

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- Sizes to accommodate depth constraints and

CULTEC
SEPARATOR® 360

capacity plastic
LRFD Design :

Separator™
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 **Propex**
GEO SOLUTION



 **PYRAWALL**
Engineered Retention Wall System

A robust offering of super
engineered solutions that
benchmark for long-term



Efficient Buried Bridge Solutions

Our Buried Bridges are easy to ship and install with minimal equipment and labor requirements, making them ideal even in remote locations.



...ing America's

Project
of
ply















Utility Asset Management, Inc. is a
 Licensed Utility Contractor Specialist
 in the following services:

- Centrifugally Cast Concrete (SpinCasting)
- Manhole, Lift Station and Wetwell Rehabilitation
- Culvert Invert Lining
- Chemical Grout Injection
- Void Filling / Sinkhole Repair
- Pipeline Abandonment
- Annular Space Grouting / Lining



Michelle
 Michelle Durson
 City of Madison
 ALABAMA



Scott
 Scott Kelly
 AP/M Permaform
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www.permaform.net











TreeDiaper The Ultimate Plant Protection

- ### 5 Reasons Why TreeDiaper®
- Is The Best Irrigation Method For Sandy Soil
1. Super Slow Release
=> Less Percolation Loss
 2. Reduced Evaporation
=> Dries Slower From Top
 3. Rainwater Harvesting
=> Self Recharging
 4. Weed Control
=> Less Competition
 5. Waters Rootball & More
=> Outward Root Growth

Wei
Wei Zhang
TreeDiaper
2017

Kimberly
Kimberly Strong
2017

SWSA
South West States Association
14th Annual Beyond Summer Lake









FERGUSON
WATERWORKS

**HYDRODY
SEPARA**

NUTRIENT
BAR

BOLD & GOLD FILTRATION MEDIA

THE NEXT GENERATION
OF BIORETENTION MEDIA

Removal Up To:

95% Total
Phosphorus

75% Total
Nitrogen

99% Colif



**WHERE THE PROS
GO FOR GEOS**

Ferguson Waterworks stocks
a large variety of erosion
control products including:

- Erosion and sediment control
- Geocells and porous pavements
- Membranes and liners
- Retaining walls

Mack













TREATMENT



- Meets or exceeds all AASHTO standards
- Approved for Engineering Applications
- Superior performance

ADS HIGH PERFORMANCE STORM DRAINAGE PIPE FOR STURDY APPLICATIONS

ADS logo

Barracuda

High Performance Storm Drainage Pipe

High performance storm drainage pipe... ADS logo

TreeDiaper® The Ultimate Plant Protection

Protection Against Rock Salt

Without TreeDiaper®

Green Infrastructure

- ### Protects Plants Against
- catching & slowly releasing stormwater,
 - controlling weed growth,
 - reducing evaporation loss,
 - protecting root systems from extreme weather conditions.











WK DICKSON
community infrastructure consultants

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community infrastructure consultants

SUSTAINABLE

WATER SOURCE

AREAS OF INTEREST

AREAS OF INTEREST

- ▶ Site Redevelopment
- ▶ Brownfield Remediation
- ▶ Low Impact Development
- ▶ Natural Habitat
- ▶ Xeriscape Landscaping

- ▶ Natural Resource
- ▶ Watershed Protection
- ▶ Land Revitalization

Brochure



VORTEX
products

Providing best-in-class **TRENCHLESS**
INFRASTRUCTURE REPAIR SERVICES
for long-term, cost effective solutions.



**ADVANCED
COATING
& LINING
MATERIALS**



**SEWER
ROBOTICS
& PIPE
CRAWLERS**



**PIPE &
DRAIN
TOOLS**



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Mary Cate
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OTT
HydroMet



VALUABLE WATER AND WEATHER INSIGHTS

OTT HydroMet offers advanced products and services that help those seeking to protect the world's resources and lives.

Combined strength and expertise of leaders in:

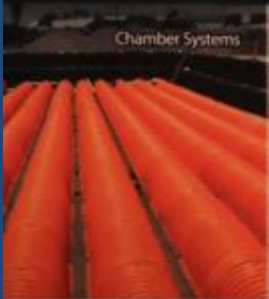
- water quality
- water quantity
- surface weather





NDS
We put water in its place

Your knowledge trusted partner for the best management solutions



Chamber Systems



Channel Drains



Catch Basin



Bryan
NDS Pro
2014



Charlie
NDS Pro
2014

Stormwater Management · Flow Management

ADS

HP Storm
HIGH PERFORMANCE

ADS

ADS

HIGH PERFORMANCE PIPE FOR STORM APPLICATION

Barracuda™

Rise Through Sediment and Denitrification Resuspension

High performance vortex hydrodynamic separator installs standard precast manholes. The 4' unit is designed for a 4' manhole.

Flexible inlet/outlet positions.

Competitive treatment flow rates with internal bypass for inline installations.

Third party performance testing verifies 80% TSS removal (COK-110), NUCAT Verified/NUDEP Approved for 50% TSS removal (550-75 micron).

TR

high-performance, vortex Barracuda removes total suspended solids (TSS) from single manhole designs in steep slope configurations. E

Filter designed to effectively remove suspended solids, nitrogen, phosphorus and stormwater

- Meets or exceeds ASTM F2881 and AASHTO M330
- Approved by Army Corps of Engineers for federal
- Adv
- Gro



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STORMWATER MANAGEMENT SOLUTIONS
RETENTION • DETENTION • INFILTRATION • WATER QUALITY
CULTEC



**ENTIAL
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ed by impervious surfaces
back into the ground.
manage water
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STORMWATER MANAGEMENT SOLUTIONS
RETENTION • DETENTION • INFILTRATION • WATER QUALITY
CULTEC

Take a
360°
View



**CULTEC
HARGER® 360°**

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STORMWATER MANAGEMENT SOLUTIONS
RETENTION • DETENTION • INFILTRATION • WATER QUALITY
CULTEC



**CO
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* Sizes to
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PolySeal
Water Tight Coupl



Permanent Seal
Strength
Even Performan
Similar F

Jan
CULTEC

Ben
CULTEC



The Best
Storm Drain
Filters



Storm Clean®
Filtration



MetalZorb®

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ACCESS

Enter To Win
Leatherman Skirtool

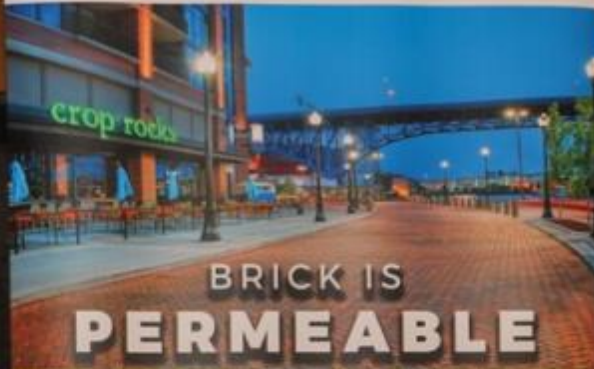


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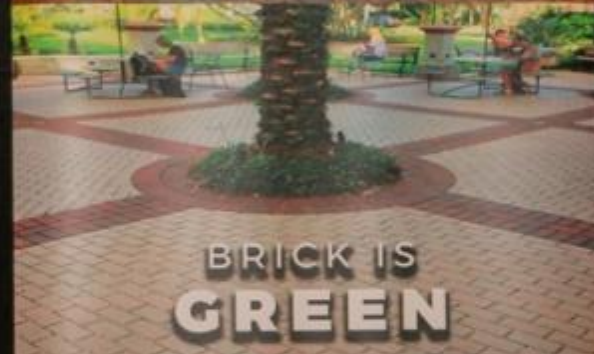


PINE HALL BRICK

AUTHENTIC CLAY PAVERS



BRICK IS
PERMEABLE



BRICK IS
GREEN



BRICK IS
SUSTAINABLE

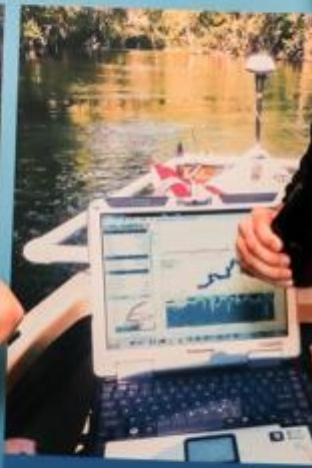
AUTHENTIC CLAY PAVERS



Surface Water



xylom
Lead Water



Profiling & M



WAPRO

HOLDING BACK THE FLOOD

WaStop®

The Ingenious Inline Check Valve



WAPRO

HOLDING BACK THE FLOOD

WaStop®

The Ingenious Inline Check Valve



- Best possible **flow control** in both high and low pressure events
- High **resistance** to external factors (salt water, temperature, chemicals, debris, barnacles etc.)
- In-built, automatic & self cleaning flow action
- Exceptional "memory membrane"
- Extremely **low headloss** & opening pressure
- Constructed using up to 60% recycled material

WAPRO

HOLDING BACK THE FLOOD

WaStop®

The Ingenious Inline Check Valve



Richard
Sales and
Marketing
Manager

WAPRO



UAM
UTILITY ASSET MANAGEMENT, INC.
Applied Trenchless Solutions

Utility Asset Management, Inc. is a Licensed Utility Contractor Specializing in the following services:

- Centrifugally Cast Concrete (SpinCasting)
- Manhole, Lift Station and Wetwell Rehabilitation
- Culvert Invert Lining
- Chemical Grout Injection
- Void Filling / Sinkhole Repair
- Pipeline Abandonment
- Annular Space Grouting / Light Weight Cellular Concrete





CENTRIFUGALLY CAST CONCRETE PIPE



STRUCTURAL PIPE LINING

- 36" and larger
- Permanently Sealed
- Full Length Seamless
- No Excavation
- Corrosion Protected
- Precision Placement at Design Thickness

Double the Life for Half the Cost

...another trenchless solution



AP/M PERMAFORM

www.centripipe.com



AP/M PERMAFORM
The trenchless solutions company

'hole solution'™!



Manhole Frame

Internal Chimney Seals Cor+Seal® & Cor+Flex™

6" U Concrete Joints with Cor+Seal® Flex-Joint™

Patch Seals with PERMAFORM

Protect Channel with Cor+Seal® Channel Liner





THE MUD STOPS HERE
EFFECTIVE TRACKOUT CONTROL SOLUTIONS



FODS Reusable Trackout Control System eliminates ineffective and costly traditional trackout solutions.
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REUSABLE TRACKOUT CONTROL SYSTEM



FODS 10 years
Save



TreeDiaper® The Ultimate Plant Protection

HIGH PERFORMANCE PIPE FOR STORM APPLICATIONS

Plant Protection Against Rock Salt

5 Reasons Why TreeDiaper® Is The Best Irrigation Method For Sandy Soil

1. Super Slow Release
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=> Dries Slower From Top
3. Rainwater Harvesting
=> Self Recharging
4. Weed Control
=> Less Competition
5. Waters Rootball & More
=> Outward Root Growth

One Year No Watering with TreeDiaper®

Parking Lot

Dying tree

Watering & Live Tree



Median



CJGEO CONTRACTORS

- Annular Space Grouting
- Pipe Abandonment
- Chemical Grouting
- I & I Repairs
- Sinkhole Grouting
- Sprayed Coatings



sprayroq.com

MUNICIPAL





CONCRETE CLOTH™

Geosynthetic Composite Mat (GCCM)

- Central fabric, hardens on hydration
- Provides waterproof & fire-resistant concrete layer
- Easily adaptable to any shape
- No protection to weather (can be installed in rain & snow)



CONTAINMENT



DON'T REPLACE, REHABILITATE

GeoSpray® Geopolymer is a pipe re-lining material that:

- Requires no digging
- Minimizes installation footprint
- Offers enhanced physical performance
- Adapts to any shape



SEWER REHABILITATION







CONTECH[®]
ENGINEERED SOLUTIONS

Dan
Dan Smith
CONTECH

CONTECH







Efficient Buried Bridge Solutions

Our Buried Bridges are easy to ship and install with minimal equipment and labor requirements, making them ideal even in remote locations.



Building

Big R Bridge partner experience in of value-eg related infras



bigrbrid







Stay ahead of
groundwater challenge
with C14 dating

Worried
about nitrate
contamination?

Isotopic Analysis of Dissolved
Nitrate

Measurements using an isotope
ratio mass spectrometer (IRMS)

ISO 17025-accredited results
in 14 business days or less

Sean

Chief Analyst

Beta Analytical

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WATER RESOURCES

GEOGRAPHIC
INFORMATION SYSTEMS

ENGINEERING
SURVEYING
PLANNING

















TreeDiaper® The Ultimate Plant Protection

Plant Protection Against Rock Salt

McLean Metro Station, Fairfax, VA
Stormwater Green Infrastructure
Stabilizing Soil Moisture
with TreeDiaper®

Aug 12, 2017

One Year No Watering
with TreeDiaper®

Parking Lot

Droughts

5 Reasons Why
TreeDiaper®
Is The Best Irrigation
Method For Sandy Soil

1. Super Slow Release
→ Less Percolation Loss
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3. Rainwater Harvesting
→ Soil Recharging
4. Weed Control
→ Less Competition
5. Waters Rootball & More
→ Outward Root Growth

HIGH PERFORMANCE
FOR STORM WATER

Hydracuda

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Wei
Wei Zhou
TreeDiaper®



AquaShield®
WATER TREATMENT SOLUTIONS

AQUA-FILTER

Innovative. Modular.
Adaptable. Site specific.

How it works:

The Mainstay Composite Liner repairs and protects concrete structures in many corrosive sewer environments.



Restoration and Corrosion Barrier Composite Liner

- Manhole Rehabilitation
- Potable Water Linings
- Application Equipment

The Fast Two Step Solution



Step 2

Apply Mainstay MD-TI mortar to the substrate using concrete mixing equipment, a trowel or the Mainstay Mortar Spinner.







StormX™

End of Pipe Netting Technology

Trash Trap Technologies

Cleaning Our Waterways



Captures Floatables 24/7/365 Using Natural Current

Effective In Low & High Velocities

Does Not Interfere or Trap Aquatic Wildlife

High Visibility Raises Public Awareness

Tidal Gate Retains Captured Litter

Does Not Affect Waterway Hydraulics

Will Not Cause Flooding

Site Adaptable

Bandalong Litter Trap & Boom Systems



on, DC









