

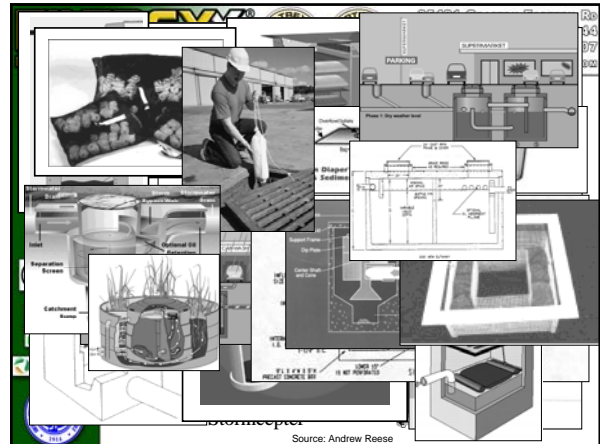
FILTREXX[®] THE CERTIFIED STANDARD IN EROSION CONTROL

35481 Chaffon Eastern Rd
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440-625-2607
www.filtrex.com

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Construction Site Applications for Compost

Presented By Rod Tyler
www.filtrex.com



The Organic Answer
Filtrex™

Prevention - Costs less, works better!!

W&H PACIFIC **FILTREXX** **TCEQ** **OHIO STATE UNIVERSITY** **CAROL**

DNR **THE UNIVERSITY OF GEORGIA** **TXDOT**

WOODS END RESEARCH LABORATORY, INC. **IOWA DEPARTMENT OF TRANSPORTATION**

USDA **UNIVERSITY OF CONNECTICUT** **COLORADO STATE UNIVERSITY**

CAL POLY **IOWA STATE UNIVERSITY** **TEXAS A&M UNIVERSITY** **SOIL CONTROL LAB**

REXIIUS **THE UNIVERSITY OF TEXAS AT AUSTIN** **MAINE DOT** **FILTREXX**

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1. SOXX™
THE MESH CONTAINMENT SYSTEM

- Continuous Length
- Over 40 products/materials to choose from
- 8", 12", 18" and 24" diameters

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Filtrex FilterMedia™

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Soxx + Filler = System

- Additives used for targeted pollutants:
 - Phosphorous
 - Nitrogen
 - Bacteria
 - Heavy Metals
 - Pesticides
 - TSS
 - Research is showing we can remove up to 95% of each of these with proper additives

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How the Product is Installed



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Unique Features of Compost

- Three dimensional Filtration
 - NOT a single membrane or piece of cloth
 - Compost Particles form a Filtration 'Matrix'
- Three way filtration
 - Chemical
 - Binding – a chemical reaction over time
 - Physical
 - Blocking/trapping soil gets caught in openings
 - Biological
 - Compounds degraded via reactions/

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Filtrex FilterMedia™

Filtrex FilterMedia™ is a specially manufactured composted product which meets Filtrex Specifications.

FilterMedia™ is specified for:

- Flow Rate of between 6 and 10 GPM
- 80%+ filtration of TSS, TS

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Certified RESULTS

FLOW THROUGH RATE:	16 GALLONS PER MINUTE
LEACH TEST:	NPK: NONE
CHEMICAL REMOVAL:	TOTAL N: 29% REDUCTION
	TOTAL P: 14% REDUCTION
	TOTAL K: 14% REDUCTION
MOTOR OIL TEST:	98.5% REDUCTION (ABSORPTION)
TURBIDITY:	27% REDUCTION
LARGE SOLIDS REMOVAL:	100% REDUCTION
SUSPENDED SOLIDS REMOVED:	52% REDUCTION
SUSPENDED SOLIDS W/ FLOCCULANT:	96% REDUCTION

NOTE: THIS PRIVATE TESTING AND CERTIFICATION PROGRAM IS CURRENTLY IN PROGRESS. MORE TESTING IS AVAILABLE ON A QUARTERLY BASIS VIA EITHER YOUR LOCAL INSTALLER OR OUR HEADQUARTERS AT FILTREXX INTERNATIONAL, LLC

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Filtrex SiltSoxx vs silt fence



Silt Fence

USDA

SiltSoxx #1

SiltSoxx #2

SiltSoxx #3

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Filtrex Silt Soxx™

- Advantages:
 - No trenching needed
 - Good for hard, compact, rocky soils
 - Good for pavement
 - Weight of Soxx resist movement
 - Good around sensitive tree roots



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Filtrex Inlet Soxx™

- Advantages:
 - Easy to install, maintain and remove
 - Simple construction – maintenance is easy because it is outside the FilterSoxx, on hard surface
 - No Domino effect
 - Hi flow rates exceeding design capacity go over top of FilterSoxx into the drain, without flooding road surface or going over curbs



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Compost Naturally Filters Hydrocarbons!

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Filtrex DitchChexx[™]

- Advantages:
 - Can create ‘terraces’ as sediment and vegetation fills in behind Ditch Chexx
 - Easy to remove compared to rip rap
 - More effective filtration for sediment and other contaminants than rock checks or silt fence
 - Can be left in place or removed

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Palletized onsite solutions

- Quick Patchwork
- Emergency Containment
- Replacement when Soxh need moved
- Additional Inlets or Ditch Chexx



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Palletized onsite solutions



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Filtrex Filter Rings™

- Advantages:
 - Best concrete washout system available
 - Easy cleanup and disposal
 - Additional rings can be added for continued filtration
 - Vertical Layers can be added for additional filtration

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Temporary on site Filtration



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Most Common Concrete Washouts








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FilterRing Used as a Concrete Washout






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Filtrex FilterCell™

- Advantages:
 - Increased filtering capacity compared to traditional sediment ponds
 - Ideal for sensitive areas/wetlands
 - Small Plot can treat large areas
 - Each Cell Section can treat a different contaminant – through varying of specified compost and/or polymer treatments



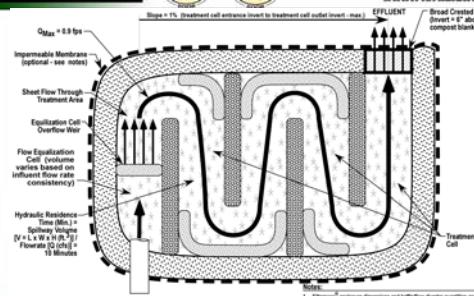













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Inlet = 1% (Treatment cell entrance level to treatment cell outlet invert, max.)
 Broad Crested Weir (Invert + 4" above Composite Surface)
 Effluent
 Impermeable Membrane (optional - see notes)
 Sheet Flow Through Treatment Area
 Equalization Cell (Overflow Weir)
 Flow Equalization Cell (Inlet and outlet varies based on influent flow rate consistency)
 Hydraulic Residence Time (Min.) = 10 Minutes
 Inlet
 Legend:
 18" Weighted, Seeded Filtrex® Compost Fibrex® Enclosure
 12" Weighted, Seeded Filtrex® Compost Fibrex® Baffle
 8" Weighted, Seeded Filtrex® Compost Fibrex® Flow Divider
 4" Seeded Filtrex® Compost Blanket w/ Lockdown Netting

- Filtrex® enclosure dimensions and baffles/diaphragm spacing and slope are critical to maintain the design flow rate and hydraulic residence time requirements.
- Impermeable liner may be required for point source discharge.
- All Filtrex® is to be seeded with high starch vegetation, per Manufacturer's Best Management Practices (BMP's) guidelines and approved local soil test results.
- All Filtrex® "umpers" must be to be seeded with Emergent or Marsh vegetation, per BMP's guidelines and/or approved local soil test results.
- System can be modified to control point-source discharges in residential developments, construction sites, etc. (See Examples).

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What about costs?

- Would you recommend buying something that you know costs more to operate than another option?

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What about costs?

www.epa.gov/epaoswer/non-hw/green/tools/erosion.xls

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