

# UniScreen Stormwater Treatment System

## Partial Project List

New Castle Properties  
Weaver Lake Road  
Cazenovia Creek  
Brookfield Subdivision  
Polo Grounds Subdivision  
Technology Park  
Montessori Learning Academy  
McDonalds Restaurant  
KFC Restaurant  
First Niagara Bank  
Summerfield Farms  
Wegmans Food Market  
SUNY Medical Garage  
Pleasant Meadows Subdivision

## Contact Information

PO Box 55  
East Pembroke, New York 14056  
Phone: 800-809-2801  
Fax: 585-815-4701  
[www.ENV21.com](http://www.ENV21.com)  
[envngr@env21.com](mailto:envngr@env21.com)



The UniScreen Stormwater Treatment System provides primary treatment of stormwater using locally available precast manholes and vaults. The UniScreen incorporates a dual function insert. One function is to trap mutually buoyant solids, the other is to act as a flow diffuser /distributor and improve the removal of TSS, floating oils, and debris.

The screen face area is 5 times larger than that provided by alternate screen inserts. Increased screen face area results in lower head loss and allows for online operation to eliminate pollutant bypassing during high intensity rainfall events. The unique design of the screen allows for improved self cleaning of the screen during the storm events thereby decreasing maintenance requirements.

- **Single Structure configuration**
- **Sedimentation Science –Stokes Law**
- **Locally manufactured**
- **Self Scouring Screen Technology**

The UniScreen Inserts are manufactured from materials proven to be resistant to corrosion during long term exposure to Stormwater.

UniScreen Stormwater Treatment Systems are sized to help meet the EPA goals of 80% TSS and 40% Phosphorus annual removal efficiency. Every UniScreen design includes Design Storm Hydrology, Water Quality Hydrology, estimated Pump out interval, and Design Storm Backwater Analysis. For redevelopment projects the Environment 21 UniScreen is readily adaptable for retrofit in existing structures with sufficient sump depths (to be reviewed by Env21 Staff).



## Service Features and Maintenance



Because of the unique design and use of vertical inserts the entire floor area of the UniScreen is accessible for inspection and maintenance. In addition due to the hydraulics and flow pattern of the system we are able to maintain a 4 foot to 6 foot sump depth, thereby by decreasing the total depth of the system for maintenance.

Through continuous field and laboratory testing, combined with ongoing realistic Case Studies we are able to give you the confidence that you are meeting your local and national EPA Stormwater Management Requirements to the best of your ability. With such high profile projects like SUNY Medical Garage in NY why shouldn't you be using a Stormwater Treatment System with all of your concerns and project needs met. Environment 21 engineers work directly with you to reduce treatment system cost while still providing the maximum treatment efficiency.

## System Sizing

Model	Impervious Area	Max. Inlet Pipe	Peak Flow
5SC	0.0 -4.0 acres	18"	7 cfs
6SC	4.0 - 10.0 acres	24"	16 cfs
7SC	10.0 – 12.0 acres	30"	25 cfs
8SC	12.0 – 15.0 acres	36"	35 cfs
10SC	15.0 – 20.0 acres	42"	48 cfs
12SC	20.0 – 25.0 acres	48"	60 cfs

### SERVICES AVAILABLE

Technical Support  
Preliminary Designs  
Installation and Setup  
Maintenance  
Application Support

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## 24 Hour Preliminary Designs

Using our user friendly online Sizing Request Form we can complete a preliminary design and have it waiting in your inbox within 24 hours. No need to register, no annoying salesmen calling on you. In addition our expert sales & engineering staff can assist you with any regulatory approval.

