



**Metropolitan St. Louis  
Sewer District**

---

2350 Market Street  
St. Louis, MO 63103

May 3, 2022

Mr. Mitch Haustein  
Anoka Conservation District  
1318 McKay Dr, NE, Ste 300  
Ham Lake, MN 55304

RE: Rain Guardian PreTreatment Systems

Dear Mr. Haustein,

The Metropolitan St. Louis Sewer District (MSD) has reviewed your application of the Rain Guardian line of products. Products covered by this letter are the Bunker and Turret systems. These systems may be used as supplemental pretreatment features on bioretention and other MSD-approved filtration systems approved as stand-alone water quality BMPs, subject to the following:

1. Proposed uses and designs of the device shall be in accordance with MSD rules, requirements, and construction specifications in addition to the guidelines outlined in the submittal you provided to MSD on February 24, 2022.
2. The Bunker and Turret systems may be used as an enhancement to filtration system pretreatment on new development, redevelopment, and highway/roadway projects. The use of these systems shall be subordinate to MSD standard pretreatment design requirements.
3. The Bunker and Turret systems may be used as components to enhance maintenance and operation in new private stormwater management facility designs and retrofit scenarios where conventional pretreatment features are either not required or were not applied.
4. Some applications may require a rock blanket or additional erosion control downstream of the pretreatment system. Additional pretreatment measures, as determined by the consulting Engineer and/or MSD, may be required.
5. Project specific design calculations and maintenance plans shall conform to the manufacturer's recommendations and must be included within the project's "Stormwater Management Facilities Report" prepared by the consulting Engineer.



**Metropolitan St. Louis  
Sewer District**

---

2350 Market Street  
St. Louis, MO 63103

MSD reserves the ability to withdraw or modify this approval based on subsequent information, including information indicating that the systems do not satisfy MSD rules, requirements, or construction and material specifications.

Sincerely,

A handwritten signature in cursive script, which appears to read "Curtis Zurliene", is written below the word "Sincerely,".

Curtis Zurliene, P.E.  
Civil Engineer (BMP Committee Chairman)  
Engineering / Planning - Development Review  
Metropolitan St. Louis Sewer District



## LOCATIONS & CONTACT INFO

### ASP ENTERPRISES

aspent.com  
salesasp@aspent.com

### BOWMAN CONSTRUCTION SUPPLY

bowmanconstructionsupply.com  
salesbcs@bowmanconstructionsupply.com

### QUICK SUPPLY CO.

quicksupplyco.com  
salesquick@quicksupplyco.com

### CASCADE GEOSYNTHETICS

cascadegeos.com  
salescascade@cascadegeos.com

St. Louis, MO 636.343.4357  
Omaha, NE 402.861.8579

Denver, CO 303.696.8960  
Colorado Springs, CO 719.257.7840

Des Moines, IA 515.289.1271

Portland, OR 971.339.1020

Kansas City, MO 816.554.1191  
Wichita, KS 316.393.1554

Loveland, CO 970.535.0863

## SOLUTIONS WE SUPPLY

### GEOSYNTHETICS

Filter Fabrics  
Stabilization Fabrics

#### Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

#### Specialty Fabrics

#### Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

### SEDIMENT CONTROL

#### Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

#### Ditch Checks

- Triangle Silt Dike
- GeoRidge

#### Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

#### Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

#### Sediment Basin Skimmers

#### Dewatering Bags

#### Trackout Control

- FODS
- Rumble Grates

#### Turbidity Curtains

### EROSION CONTROL

#### Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

#### High-Performance Hydraulically Applied Products

- BFM
- FGM
- Additives & Tackifiers

#### Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

#### Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

#### Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

#### Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

### STORMWATER MANAGEMENT

#### Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

#### Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

#### Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

#### Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

#### Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

### SPECIALTY

#### Natural & Synthetic Coir Fiber Logs

#### Vegetated Reinforced Soil Slopes

#### Soil Anchors

#### Root Barrier System

#### AquaBlok

#### Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

**GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT  
SEDIMENT CONTROL | REVEGETATION | HARDSCAPES**