

## A-1 Bioretention Soil Mix #8A (Soil Medium for Bio-Swales & Bio-Retention Basins) Product Code 804



### PRODUCT DESCRIPTION:

**A-1 Bioretention Soil Mix #8A** is a blend of **80% washed coarse sand** and **20% sandy loam topsoil**. The blended material is low in silt and clay which allows the material to perform at a minimum drainage properties of > 5" per hour KSat Perc Rate. Tested @ 75% compaction. This satisfies civil engineering requirements while maintaining the agronomical properties of a well graded sand with silt to satisfy the landscape architect's desire to support growth of plant material. Clay content is limited to provide a minimum cation exchange capacity for healthy plant material if desired.

*\*Compaction % of Bio Soil on job site is determined by the engineer\**



The uniform sand sizes of **A-1 Bioretention Soil Mix #8A** results in long lasting pore space and moisture capacity for a reasonably priced, readily available, consistent source of an appropriate soil medium to comply with State Water Quality requirements.

(\*NOTE; Organic matter may be incorporated into the A-1 Bioretention Soil by volume percentage when requested by the customer for an additional cost that will vary depending on the desired type and percentage requested. It is recommended that organic matter be incorporated into the soil medium's top six inches after installation to relieve compaction or in the planting hole for trees or shrubs to concentrated the amendment where it will benefit the plants and restrict water movement.)

### PRODUCT USES:

**A-1 Bioretention Soil Mix #8A** is a soil medium for Bioretention Basins and Swales which helps remove contaminants from storm water runoff as required by the State of California Regional Water Quality Control Board and other government agencies charged with enforcement of these requirements. The ultimate goal is to help prevent contamination of the downstream beneficial water sources of the State.

(\*NOTE: All materials should be sampled, submitted, and approved prior to shipment or installation as job plans and specifications **VARY GREATLY!** It is the customer's responsibility to assure the soil is approved **BEFORE** installation!

### INSTALLATION:

**A-1 Bioretention Soil** should be installed per construction plans or engineers specifications.

Specification data subject to change. Additional data available upon request.

**Limitation of Warranties:** Seller makes no warranty of any kind, express or implied, regarding the materials; and all warranties, including any implied warranty of merchantability and any implied warranty of fitness for a particular purpose, are hereby excluded.



## **A-1 Bioretention Soil Mix #8A** (Soil Medium for Bio-Swales and Bio-Retention Basins) **Product Code 804**

*A-1 Bioretention Soil Mix #8A* is a locally available mix that is a reasonably priced solution for architects and engineers designing project to achieve LEED credits and certification as well as compliance with local and state storm drain requirements.

- ◆ Sustainable Sites Credit 5.1 Site Development - Protect / Restore Habitat
- ◆ Sustainable Sites Credit 6.1 Storm Water Design - Quality Control
- ◆ Sustainable Sites Credit 6.2 Storm Water Design - Quality Control
- ◆ Water Efficiency Prerequisite Water Use Reduction - 20% Reduction
- ◆ Water Efficiency Credit 1 - Water Efficiency Landscaping
- ◆ Material and Resources Credit 5 - Regional Materials
- ◆ Innovation in Design - Protect & Restore Habitat

**PRODUCT ANALYSIS: (Unnamed A-1 Bioretention Mix #8A) - Product can be amended per specification**

### **Passing**

<b>3/8"</b> .....	<b>100%</b>
<b>#4</b> .....	<b>95%-100%</b>
<b>#8</b> .....	<b>40%-60%</b>
<b>#200</b> .....	<b>&lt;15%</b>

**USDA Soil Classification** ..... **Very Gravelly Sand**

**PH Range** ..... **7 - 8**

**ECe (Salinity)** ..... **< 3.0**

**KSat (Perc Rate)**..... **>5.0 inches/hr @ 75% Compaction (Compaction affects permeability)**

**Sand** ..... **80%-90%**

**Topsoil** ..... **20% added topsoil (sand component in topsoil shows up in final mix evaluation)**

**Silt & Clay** ..... **5% - 15% (from added topsoil)**

**\*Analysis based on UN-AMENDED soil. Amendments added by volume and type requested.**

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