

ADS BAYSEPARATOR™ STORMWATER TREATMENT SYSTEM

Through extensive testing and mathematical modeling, the BaySeparator was developed to deliver predictable, reliable and scalable performance with efficiency, ease of maintenance and cost effectiveness. Using fully customizable systems, BaySeparator removes over 80% of oils, fine suspended solids and floatable debris as soon as runoff enters the system.

The system is comprised of three main components: the BaySeparator Unit, the Primary Manhole and the Storage Manhole. Influent flow containing pollutants enters the system through the Primary Manhole. Course sediment settles while the flow passes over a weir into the BaySeparator Unit and is routed to the Storage Manhole. Once in the Storage Manhole, floatable debris, oils and grease float to the surface while fine sediments settle to the bottom. Maintenance is easily accomplished through the system's fully accessible chambers, resulting in more efficiency and lower costs.

FEATURES:

- Easy to specify, install, and maintain.
- Available in multiple sizes and systems for multiple applications
- System can be configured for a right-hand or left-hand layout to fit each site
- Can be placed under load-bearing surfaces or in green spaces
- Assists in compliance with Phase II (122.34(b)(5)) of the Clean Water Act
- Excellent abrasion and corrosion resistance
- Offline storage of collected pollutants prevents re-suspension

ADS Service: ADS representatives are committed to providing you with the answers to all your questions, including specifications, and installation and more.



BENEFITS:

- Cost effective
- Easy access = easy inspections & maintenance
- Low maintenance costs
- Can be sized for any volume of stormwater
- Removes gross pollutants, oil, grease and suspended solids



ADS BAYSEPARATOR STORMWATER TREATMENT SYSTEM SPECIFICATIONS

MATERIALS AND DESIGN

- Concrete structures shall be designed for H-20 loading traffic and applicable earth loads or as otherwise determined by a Licensed Professional Engineer. The materials and structural design of the devices shall be per ASTM C478.
- The separator structure shall be substantially constructed of HDPE or equivalent corrosion-resistant material meeting ASTM F2306.
- Smooth wall pipes within the unit, (i.e. tee pipes, connector pipes and down pipes) shall be constructed of SDR 32.5 HDPE pipe of standard ASTM F412.
- Pipe and fitting material shall be high-density polyethylene meeting ASTM F2306 minimum cell classification 435400C for 24-inch through 60-inch diameters.
- The reducer/adaptor shall be installed with an exterior joining coupler. The joint coupler shall be Mar-Mac® couplers and shall be installed according to the manufacturer's recommendations.
- The connector pipes shall be connected with the down pipes using flexible couplings that have been manufactured to conform to ASTM C425.

PERFORMANCE

- The stormwater treatment unit shall be an online unit capable of conveying 100% of the peak design flow.
- The stormwater treatment unit shall be designed to remove at least 80% of the suspended solids load on an annual aggregate removal basis. Said removal shall be based on full-scale third party testing using F-95 media gradation (manufactured by US Silica®) or equivalent. Said full scale testing shall have included sediment capture based on actual total mass collected by the Stormwater Treatment Unit(s).
- The stormwater treatment unit shall consist of one (1) prefabricated separator structure, one (1) on-line coarse sediment capture structure, and one (1) off-fine sediment capture structure. The separator structure shall be substantially constructed of HDPE or equivalent corrosion resistant material. The offline sediment storage structure must provide for offline sediment storage of sediments and floatables that are isolated from high intensity storms. The said capture structures or manholes shall be of standard concrete construction.
- The Stormwater Treatment Unit(s) head loss at the Peak Design Flow Rate shall not exceed the head loss specified by the Engineer.
- The unit shall be designed to remove sediment particles as well as floating oils and debris.

INSTALLATION

Installation of the Stormwater Treatment Unit(s) shall be performed per manufacturer's Installation Instructions.

For more information on BayFilter Stormwater Filtration System and other ADS products, please contact our Customer Service Representatives at 1-800-821-6710

