

School District Installs Jellyfish to Treat Stormwater in Parking Lot

The Westwood Regional School District (WWRSD) in New Jersey is using Imbrium's Jellyfish™ fine sediment filter to treat stormwater runoff from Westwood Regional Junior/Senior High School's parking lot.

The school district, located 15 miles northwest of midtown Manhattan, chose Jellyfish to help fulfill New Jersey Department of Environmental Protection's (NJDEP's) stormwater management requirements. The state's stormwater treatment program requires the use of a filtration system prior to infiltration to protect groundwater.



Perfect for Parking Lot Pollutants

Stormwater running off pavements contains significant amounts of sediment, nutrients, metals, oils and debris. When allowed to enter storm drains or aquifers without being treated first, these pollutants pose a serious threat to the environment and human health.

In New Jersey, groundwater quality is particularly important because it is the primary drinking water source for half of the state's residents. Most of this water comes from domestic wells (which typically receive only minimal water quality monitoring) and public water supplies that depend on aquifers.

Superior Performance

When planning the expansion project, WWRSD made the environmentally-sound decision to install the compact, highly efficient Jellyfish filtration system under the parking lot's surface to provide effective treatment to a series of underground infiltration chambers. The advanced membrane filtration technology's ability to capture very fine sediment particles at an unprecedented treatment flow rate of 50 gallons per minute per cartridge, made Jellyfish an easy choice.

Jellyfish is known for its unique high surface area filtration tentacles, which trap over 80% of the total suspended solids (TSS), while allowing three times the flow capacity compared to other filtration devices.



Small Footprint

Because Jellyfish is using membrane technology, each cartridge is much smaller and lighter, but treats a very high flow rate, resulting in a footprint one-third the size of other NJDEP-approved filters. The typical elevation drop requirement for other filtration BMPs is two or more feet, but the Jellyfish's drop is only 18 inches, making it a simpler solution for design a site's storm conveyance and treatment system.



Tight Timelines Met

This was a fast-track expansion project and it was essential to select a device that could be permitted and installed easily, without delays. Easy and quick installation was one of the key reasons the school district chose Jellyfish.

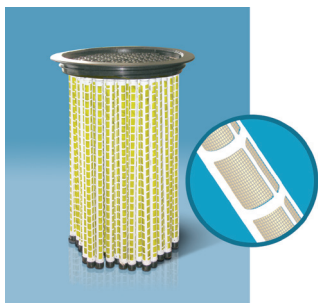
Jellyfish's performance has been verified and its state-of-the-art technology has been interim certified by the NJDEP, resulting in a streamlined permitting process.

The resulting small footprint translates into the Jellyfish being a compact, and light treatment system. When compared to other filtration BMPs, the Jellyfish filter system is simple to unload, place and install.



Easy to Maintain & Low Whole-Life Cost

The Jellyfish is gaining a strong reputation for its low whole-life cost. Its lightweight passively backwashed cartridges coupled with the highest treatment flow rate per cartridge compared to other filtration devices, makes the Jellyfish easy to maintain at a much lower cost. The lightweight cartridges are manually backwashable, which can further extend their service life, cutting down on replacement costs. Jellyfish is a simple system to inspect and maintain, which reduces the whole-life cost. In this project, the whole-life maintenance cost was estimated to be approximately 60% lower than another filtration BMP considered.



Jellyfish. Fine Sediment Filtration, Inspired by Nature.

For more information on the Jellyfish fine sediment filter system, visit Imbrium online at:

www.imbriumsystems.com.

