

SPI Storm-Water-Barrier-Box Install and Maintenance



SPI Storm-Water-Barrier-Box's are custom manufactured for any size drain. Above is a typical installation with all dirt filters installed in the upper right hand picture. Maintenance is a important to making SPI's systems work correctly. Without proper dirt control, the boxes will clog and become ineffective. This box had not been maintained and SPI was called in to do the maintenance after 8 months. The following pictures are of all the dirt filters removed and brought back to our facility. The dirt and filters were weighed at 44 pounds and each filter was installed back into an identical Barrier-Box for the following pictures.



After all the filters and dirt are in place pictures are taken for documentation.



The top sludge is removed with a shovel.



The first filter layer, a plastic mesh called flow free, is removed. The filter is totally clogged with mud, grease and dirt.



The next layer removed is a 2" thick filter of floss batting that is caked with dirt throughout.



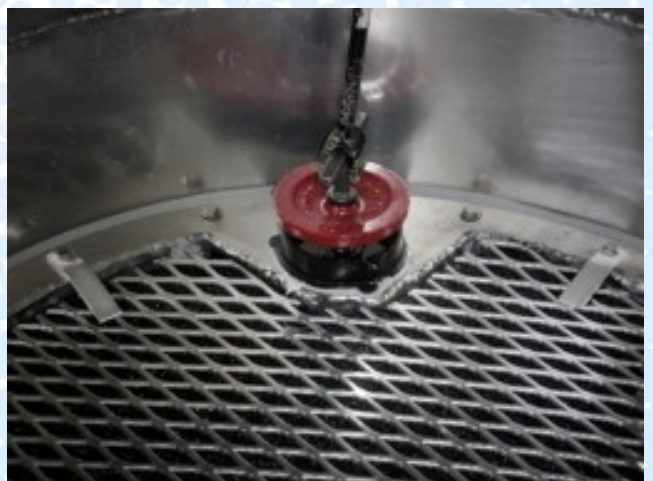
The final 2" floss batting is removed, once again totally full of dirt and debris.



All of the used filters are placed on cardboard.



The Storm-Water-Barrier-Box has the new dirt filters installed. Micro mesh is used as the first layer, it allows water flow but traps fine dirt particles from entering into the media. In the two pictures below the first 2” floss batting is installed into the filtration housing then the second one is installed on top. These allow for the water to completely drain through but filter out dirt and debris.



The final filter is the Flow Free plastic mesh that traps larger dirt and debris from getting into the lower filters. The overflow valve operates using a T-Handle and is manually opened and closed in the event a larger flow is required, or the dirt filters have not been maintained.