# FOCALPOINT
## PERFORMANCE GUARANTEE & IN-SITU TESTING

While biofiltration & bioretention systems provide unmatched ability to treat stormwater runoff, they also have a history of problems. Two of the primary reasons for these problems are that the media used in the systems don't flow as they're supposed to, or that the systems are contaminated during the construction process.

FocalPoint eliminates these two issues through the use of a generic, performance-based specification that requires post-installation testing and verification of the system. Testing the installed system guarantees both that the quality of the installed components meet the specification, and that the system is functioning properly. Here's section II C 3 of the FocalPoint Specification:

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"Within 90 days after project completion, the infiltration rate shall be confirmed at the manufacturer or installer's expense, by a wetted condition hydraulic conductivity test.

- Failure to pass this test will result in removal and replacement of all media in the system at no cost to the project owner/operator.
- Test must utilize the equipment and follow the standard operating procedures found in the Harris County, Texas manual entitled, Low Impact Development & Green Infrastructure Design Criteria for Stormwater Management (2011).
- Replacement media, if required, must be taken from a different batch than the original."

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The hydraulic conductivity test itself is performed using a Rub-I Infiltrometer (see picture below). The test measures the time required to pass a given head of water through the system in a saturated condition. For more information on the test and to see an actual test being performed on a live site, click the link below.

http://youtu.be/1SP2-g4vkWk

By testing the installed system after the project has been completed, all involved parties are protected:

- Protects the engineer by ensuring the system is flowing as designed, limiting overflows.
- Protects the contractor by demonstrating the functionality of the system and eliminating the possibility of construction stage contamination.
- Protects the regulator by ensuring the right volume of runoff is being treated, which impacts TMDL requirements.
- Protects the developer by guaranteeing a working system has been delivered on the project.

Implementing aggressive quality assurance measures on the installed system helps make FocalPoint a true, 2nd Generation Biofiltration System.