

Advanced Septic System Nitrogen Sensor Challenge, Phase II: Prototype Testing

Background Information and Updated Testing Schedule



Timeline for the Prototype Testing:

July 26, 2019

Application deadline for the August 2019 test

August 21-27, 2019

One-week test at MASSTC

October 2, 2019

Notification of acceptance for the one-month test

December 2019 (pending testing results)

One-month test at MASSTC for selected sensors

February 2020

Notification of acceptance for the six-month test

May 13 – November 16, 2020 (pending testing results)

Six-month field performance testing at MASSTC for selected sensors

Mid-February 2021 (pending testing results)

EPA prize: ISO 14034 ETV verification reports and statements

EPA selected Battelle Memorial Institute (Battelle) to support Phase II: Prototype Testing and the development of a Test/Quality Assurance Plan (T/QAP) and Verification Plan, and to oversee the testing of the sensors. The T/QAP is based on the International Organization for Standardization Environmental Technology Verification (ETV) Standard - ISO 14034. Funding for the testing program is from the US EPA Office of Research and Development and the Office of Water/Wastewater Management.

Sensor testing will be completed in 2019-20 at the Massachusetts Alternative Septic System Test Center (MASSTC), a National Sanitation Foundation (NSF) certified test facility in Barnstable, Massachusetts. There is a screening process to determine eligibility for the six-month ISO ETV 14034 field verification test. The first level of the screening is a one-week preliminary test, and developers are invited to participate in the August 2019 test. Please apply by July 26, 2019. Successful sensors will then be invited to the second level, a one-month screening test in December 2019. A sensor package must successfully complete the one-month test to receive an invitation to the extensive six-month field performance test.

Battelle will verify the results of the field performance tests based on the VerifiGlobal Performance Verification Protocol and the requirements of the ISO 14034 ETV standard. EPA will award ISO ETV verification reports and statements for sensors that complete the six-month field testing and meet the minimum performance goals.

For more information email Gail DeRuzzo at:
sensorchallenge@battelle.org