NJ Pinelands Commission
 Alternate Design Wastewater Treatment Systems
 Pilot Program

Policy and Implementation Committee
Implementation Report and Program Recommendations
January 24, 2020
All septic systems contribute nitrogen to groundwater

Modified from:
Pinelands alternate design treatment systems significantly reduce nitrogen discharges to groundwater

Modified from:
First Round Pilot Program Technologies

Amphidrome
- Permanently approved @ 1 acre
- 11.9 mg/l TN

Bioclere
- Permanently approved @ 1 acre
- 11.2 mg/l TN

Cromaglass
- Eliminated from the Pilot Program
- 31.5 mg/l TN

FAST
- Permanently approved @ 1.4 acres
- 18.2 mg/l TN
Second Round Pilot Program Technologies

**SeptiTech**
- Recommend permanent approval @ 1 ac
- 11.6 mg/l TN

**Bio Barrier**
- Recommend removal from the pilot program
- 29.3 mg/l TN

**Hoot ANR**
- Recommend removal from the pilot program
- No data after 8 years

**Busse GT**
- Recommend removal from the pilot program
- No data after 8 years
Pilot Program Implementation Report

Recommendations

• Recommend continuation of the pilot program
  ❖ To identify advanced treatment technologies capable of meeting Pinelands water quality standards for authorized development.

• Recommend adoption of a CMP amendment
  ❖ To permanently approve the SeptiTech technology for residential development on minimum one-acre parcels.
Pilot Program Implementation Report

Recommendations

• Recommend removal of the BioBarrier technology
  ❖ Inability to meet Pinelands water quality standards.

• Recommend removal of the Busse GT and Hoot ANR technologies
  ❖ No Busse or Hoot systems installed since receiving Commission approval in October 2011.
Pilot Program Implementation Report

Recommendations

• Introduce up to six new NSF Standard 245 / US EPA ETV certified technologies
  - CMP permits up to six piloted technologies at one time.

• Amend the CMP
  - Eliminate annual reporting on the pilot program
  - Next report on any new pilot program technologies due in 2025, with a possible extension to 2027 if necessary.
  - Consider additional measures to streamline the program