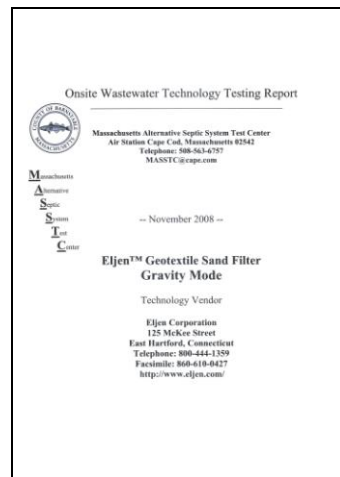
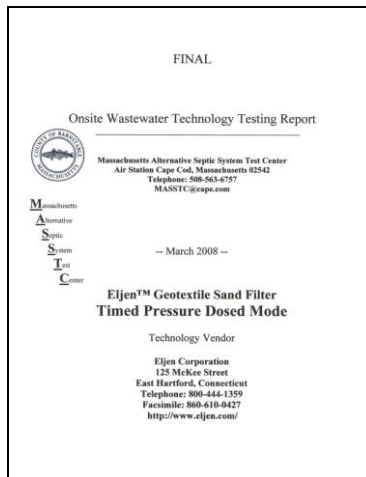
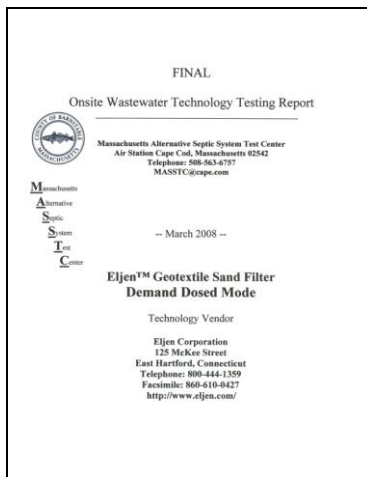




Innovative Environmental Products and Solutions Since 1970

Summary of Test Results
from the
Onsite Wastewater Technology Testing Report
Massachusetts Alternative Septic System Test Center



2008

Eljen Corporation
125 McKee Street
East Hartford, CT 06108
Tel: 800-444-1359 • Fax: 860-610-0427

About the Test Center

The Massachusetts alternative Septic System Test center (MASSTC) is located at the Otis Air National Guard military base in Falmouth, Massachusetts. The Test Center, also known as the Buzzards Bay Test Facility, is operated by the Barnstable County department of Health and Environment under direction of a Steering Committee with members from the Massachusetts Department of Environmental Protection, the United States Environmental Protection Agency, Barnstable County, Massachusetts Coastal Zone Management and the University of Massachusetts School of Marine Science and technology.

The mission of MASSTC is to provide a location for the verification and testing of onsite wastewater treatment technologies and components. The facility conducts testing under various protocols, some of which are widely recognized. Of note, the National Sanitation Foundation International (NSF) has employed MASSTC to conduct its standard protocol NSF-40 on a number of onsite septic system technologies. In addition, a number of verification tests were performed in accordance with a nutrient testing protocol jointly developed with industry, NSF and USEPA known as the Environmental Technology Verification Program (ETV). Finally, MASSTC has been used to conduct the more recently developed nitrogen reduction standard NSF/ANSI 245.

The following charts summarize 32 weeks of testing in the Demand Dose, Time Pressure Dosed, and Gravity Modes with values for Biochemical Oxygen demand (BOD) and Total Suspended Solids (TSS).

For questions and additional information contact Eljen Corporation's Technical Resource Department at 1-800-444-1359.

Table 1: CBOD and TSS Testing Values

GSF Modules Treatment Performance Demand Dosed Distribution		
	CBOD (mg/l)	TSS (mg/l)
Mean	2.0	2.7
Median	1.0	2.5
Min Value	1.0	2.5
Max Value	7.2	7.0

GSF Modules Treatment Performance Timed Pressure Distribution		
	CBOD (mg/l)	TSS (mg/l)
Mean	2.6	2.7
Median	2.2	2.5
Min Value	1.0	2.5
Max Value	14.0	9.0

GSF Modules Treatment Performance Gravity Distribution		
	CBOD (mg/l)	TSS (mg/l)
Mean	8.0	7.4
Median	7.6	5.0
Min Value	1.0	2.5
Max Value	18	55

Table 2: Fecal Coliform Testing Values

Fecal Coliform Reductions	
Distribution Mode	Percent Reduction
Demand Dosed Mode	98.74 - 99.99%
Time Pressure Dosed Mode	98.41 - 99.99%
Gravity Mode	90.0 - 99.0%