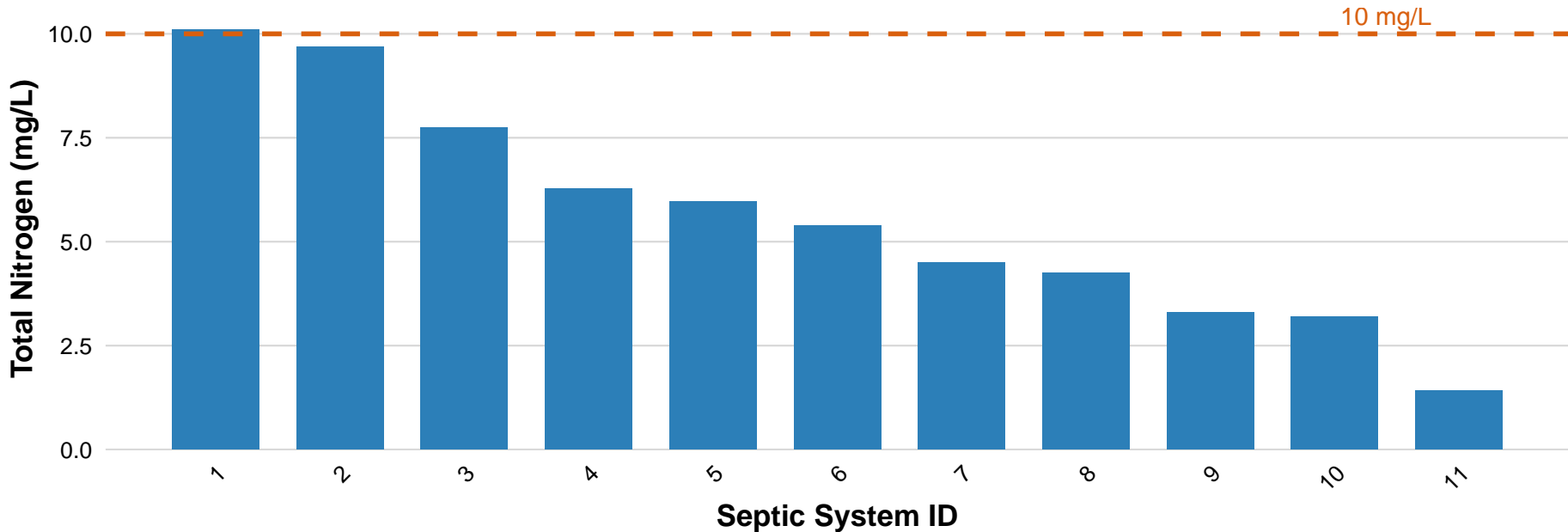


Nitrex with Provisional Use Approval for Systems Under 2,000 GPD

Average Total Nitrogen by Septic System, ranked from highest to lowest concentration



Notes

MassDEP reviews performance data for nitrogen reducing technologies approved for use in Massachusetts on a yearly basis to maintain the Best Available Nitrogen Reducing Technology (BANRT) list in accordance with 310 CMR 15.215(2)(g).

For nitrogen reducing technologies with Provisional Use approval, MassDEP reviewed all available data to determine if the technology should be listed as BANRT pursuant to 310 CMR 15.215(2)(g). Each individual system needed a minimum of four (4) samples over two (2) years in order to be included in the analysis. The average Total Nitrogen was calculated for each system and the number of systems meeting the established Total Nitrogen limit was divided by the total number of systems included in the analysis to establish the performance rate.

Included in the table below is a summary of all BANRT analyses conducted for the Nitrex Filter System with Provisional Use Approval to reduce Effluent Total Nitrogen (TN) to 10 mg/L for systems under 2,000 gallons per day.

Year	Performance	Total # of Systems Evaluated	# of Systems Meeting TN Limit	Designated as BANRT? (Yes/No)
2024	100%	8	8	Yes
2025	100%	9	9	Yes
2026	91%	11	10	Yes

Please note that the Nitrex Filter is a polishing filter that is added to the end of a nitrifying septic tank. Per the Massachusetts Department of Environmental Protection issued Provisional Use approval for the Nitrex filter, the Nitrex Filter is installed in series after an approved I/A treatment technology, which provides nitrifying pretreatment, and before a soil absorption system constructed in accordance with Title 5.

The pretreatment technology that precedes each Nitrex Filter installation considered in the BANRT analysis is detailed in the table below.

System Number	Pretreatment Technology
1	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
2	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
3	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
4	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
5	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
6	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
7	Single Pass Sand Filter
8	Single Pass Sand Filter

9	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
10	Advantex System with General Use Certification for residential flows under 2,000 gallons per day
11	Advantex System with General Use Certification for residential flows under 2,000 gallons per day