



Albert Frick Associates, Inc.

Soil Scientists & Site Evaluators

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April 5, 2011

James Donlin
Eljen Corp.
125 McKee Street
East Hartford, Ct. 06108

Re: Eljen In-Drain performance in Maine, experience by Albert Frick Associates, inc.

Dear Mr. Donlin:

Albert Frick Associates, Inc. is a private consulting firm licensed in the State of Maine with six licensed Site Evaluators. Approximately 60% of our business is designing subsurface wastewater disposal systems. Since we began operations in 1985, we have completed in excess of 20,000 septic designs, serving residential, small and large commercial and industrial facilities. Approximately 25% of these designs (5,000 +/-) utilize Eljen In-drain geotextile sand filter disposal units as the proprietary device. Since the State of Maine, Subsurface Wastewater Disposal Rules allow for a significantly smaller disposal area footprint than conventional stone and pipe beds, setbacks to site features such as wells and water bodies can be increased, while providing proper wastewater treatment and disposal. Thus far, we have found that the Eljen system has performed as anticipated and continue to utilize them where the conditions are appropriate.

The State of Maine Subsurface Wastewater Disposal Rules and attendant design parameters recognize the benefit of the Eljen units' design, which provides 87 square feet of surface area for biomat development. The geotextile fabric is folded and rolled through the proprietary device to maximize biomat surface. Effective footprint is 4 times its actual area. A 3' x 4' unit (12 square feet in area) in Maine is credited with 48 square feet of *effective* disposal footprint.

We track our malfunctioning systems, and we have over 20,000 total designs over 26 years. Of our total designs, there are a total of 94 malfunctions, 3 of which are Eljens. General failure rate in 25+ years is 0.5%. The Eljen units represent approximately 25% of 20,000, or 5,000 systems. Eljen failures of 3 produces a 0.06% failure rate.

We, at Albert Frick Associates, are very comfortable designing with Eljen In-Drain units with the State of Maine design parameters, based on our experience with the systems' performance record.

If you have any questions or concerns regarding our design criteria, installation process or success rate of these systems, please do not hesitate to contact our office.

Respectfully,

Albert Frick
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