



Sustainable Development

Environmental Stewardship Division
Environmental Approvals Branch
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July 28, 2016

Dominic Mercier, President/CEO
Enviro-STEP Technologies Inc.
16079 Henri Bourassa blvd.
Quebec City, Quebec G1G 4A2

Dear Mr. Mercier:

Re: Approval of the Eljen GSF Secondary Wastewater Treatment System

Thank you for your letter dated July 27, 2015, requesting approval to use the Eljen GSF secondary wastewater treatment system in Manitoba. Manitoba Sustainable Development has reviewed the documentation submitted in support of this request and has confirmed the following:

- The Eljen GSF secondary wastewater treatment system (Eljen GSF system) has been certified as achieving Class 1 effluent quality under NSF/ANSI Standard 40 and therefore conforms to the requirements in Schedule A, Section 1(3) of the *Onsite Wastewater Management Systems Regulation* (MR 83/2003).
- The design, installation, and operation and maintenance instructions provided in the Manitoba Design and Installation Manual dated July 26, 2016 conform to the requirements of MR 83/2003 and associated Supplementary Information (2010).
- Enviro-STEP Technologies Inc. is the national distributor for the Eljen GSF. Enviro-STEP Technologies Manitoba will be the "Authorized Representative" in Manitoba.

Approval to use the Eljen GSF system in Manitoba is hereby granted subject to the following conditions:

- (1) Persons engaged in the design, installation, maintenance, inspection and sampling of the Eljen GSF system must be adequately trained and certified by Enviro-STEP Technologies Inc. or its Authorized Representative.
- (2) The Authorized Representative is to provide Manitoba Sustainable Development with an up-to-date list of Certified Eljen system Designers/Installers on an annual basis.

- (3) Eljen GSF systems must be designed, installed, operated, maintained and serviced in accordance with MR 83/2003, Manitoba Supplementary Information (2010) and the following Eljen GSF system documents submitted by Enviro-STEP Technologies Inc.:
- Manitoba Design and Installation Manual, dated July 26, 2016
 - Eljen GSF System Manitoba Homeowner's Manual, dated July 2016
 - Eljen GSF System Design Worksheet
 - Manitoba Maintenance Agreement
 - Eljen GSF System Maintenance Procedure
- (4) Any planned revisions to the Eljen GSF system design and installation practices, the Manitoba Design and Installation Manual, or other technical information are to be submitted to Manitoba Sustainable Development for review and approval prior to implementation.
- (5) The Authorized Representative is to enter into a Maintenance Agreement with the owner of each Eljen GSF system.
- (6) Pursuant to Section 24 in MR 83/2003, the Authorized Representative shall collect effluent samples from each Eljen GSF system on an annual basis and submit them to an accredited/certified laboratory for analysis of carbonaceous Biological Oxygen Demand (cBOD₅) and Total Suspended Solids (TSS). The analytical results shall be submitted to the Manitoba Sustainable Development Onsite Wastewater Management System Program Specialist.
- (7) Applications for the registration of Eljen GSF systems are to include completed design worksheets, accurate drawings (top and side view) and a particle size analysis report from an accredited/certified laboratory confirming the sand media meets ASTM C33 specifications.

This approval is granted without prejudice to any future environmental or public health legislation that may come into force and be applicable to onsite wastewater management systems. Revisions to or the development of new Manitoba regulations, standards of practice or guidelines may necessitate updates to the design and/or installation practices associated with the Eljen GSF system.

Please be advised that in the event the Eljen GSF system does not meet the effluent quality criteria established under NSF/ANSI Standard 40, Manitoba Sustainable Development reserves the right to cancel or suspend this approval.

If you have any questions please contact Derek Smith, Onsite Wastewater Management System Program Specialist at (204) 794-1176 or via email at derek.smith@gov.mb.ca.

Sincerely,



Tracey Braun, Director
Environmental Approvals Branch