



The State of New Hampshire  
**DEPARTMENT OF ENVIRONMENTAL SERVICES**



**Thomas S. Burack, Commissioner**

May 23, 2012

Frank Currivan, President  
Cur-tech Systems, LLC  
12 Perna Lane  
Riverside, CT 06878

Mark Kelley  
New Hampshire Innovative Septic Systems  
PO Box 100  
Enfield Center, NH 03749

Re: Approval for the Use of Cur-Tech Systems

Gentlemen:

Thank you for meeting with us on May 3, 2012 to discuss your Cur-Tech Systems (the System) effluent disposal system. I have since reviewed the documentation to determine criteria for which the System may be used in New Hampshire.

It has been determined that since the System uses general chamber system technology, the same regulations shall apply, that is, the System may receive a 40% reduction in effluent disposal area (EDA) sizing as compared to the sizing criteria set forth for a conventional stone and pipe system. This sizing criteria is based upon the proposed wastewater flow volume and site specific soil characteristics (perc. test data). An EDA sizing chart can be found in the Subdivision and Individual Sewage Disposal System Design Rules (Env-Wq 1000) (Rules) in Table 1016-1. A copy of the Rules can be obtained at <http://des.nh.gov/organization/divisions/water/ssb/index.htm>

As we discussed in the May 3<sup>rd</sup> meeting, septic system designers in New Hampshire typically design EDA's in bed configurations and less frequently, trench configurations. For bed configurations, the available area is the total of the open bottom area of the chamber plus the open bottom area of each CTL plastic fin. For trench configurations, the available area is the total open bottom area as above, plus the sidewall area from the invert of the effluent pipe to the bottom of the chamber. Using the data provided by you during the meeting, the effective areas for the CTL-12 and CTL-18 units in a bed configuration are 33.24 sq. ft. per 4' x 8' chamber. The area is the same for each since the only difference between them is sidewall height. In a trench configuration, the effective areas for the CTL-12 and CTL-18 units, including fins, are as follow:

CTL -12	43.91 sq. ft. per 4' x 8' chamber or 5.49 sq. ft. per ft. and;
CTL -18	51.91 sq. ft. per 4' x 8' chamber or 6.49 sq. ft. per ft.

DES Web Site: [www.des.nh.gov](http://www.des.nh.gov)

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At this point, the approval for the CTL-24 and CTL-48 will not be entertained. These configurations provide for too much effluent storage within the EDA.

The Cur-Tech Systems CTL-12 and CTL-18 is here-by approved for use in New Hampshire as outlined above. Please note that the design and installation of all systems must be done in accordance with all applicable Rules.

If further reductions to sizing criteria and/or setback distances than are approved herein are desired, a formal application for an Innovative/Alternative Technology must be submitted and approved in accordance with Env-Wq 1024 of the Rules.

If you have any questions regarding this approval, please contact me at 603-271-2904 or at [robert.tardif@des.nh.gov](mailto:robert.tardif@des.nh.gov).

Sincerely,



Robert A. Tardif, P.E.  
Administrator  
Subsurface Systems Bureau

Cc: Rene Pelletier, Assistant Director, Water Division  
Paul Heitzler, P.E., Administrator, Wastewater Engineering Bureau