



**Land Development Division**

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April 17, 2009

Ms. Angela Birchett  
Land Use Administrator  
Planning Department, Chatham County  
12 East Street  
P.O. Box 1809  
Pittsboro, NC 27312

SUBJECT: Carolina House Progress Update

Dear Ms. Birchett,

I am writing to update you regarding the on-site wastewater system for the Carolina House located at 176 Lassiter Homestead Road. The Carolina House is a medical care facility and is currently being operated with sewer service provided by a State authorized Pump and Haul permit (authorized until August 2009). The designed system is a subsurface drip system with TS II pretreatment. We received the Authorization to Construct the system on October 31, 2008. To date, the tankage (two septic tanks, recirculation tank, field dosing tank) and treatment components (six Advantex pods, disc filter, ultraviolet disinfection) of the system have been installed. The drainfield has not yet been installed.

Due to the frequency and intensity of rain events over the last several months, the drainfield soil can not be released to allow installation of the drip line. We are hopeful that extended dry weather is in the near future to allow the soil to dry sufficiently to allow proper installation of the drip line. If installation was to occur prior to the soil drying sufficiently, we would risk sealing the drip line trench walls. This would restrict the flow of treated wastewater from the drip line into the soil and could lead to a premature failure of the system. As soon as the soil dries and is deemed suitable for installation by Chatham County (Thomas Boyce) and AWT (Jeff Vaughan), the septic contractor (McFarland Septic) is prepared to install the drip line and complete the drainfield installation. Due to this situation, I can not certify the installation of the system and apply for the operation permit.

I have been informed that in order to meet the project zoning requirements, that we need to complete the septic system by early May. As stated, we are ready to move forward as soon as the weather allows the completion of the system. In the event that we can not install the drainfield prior to the

zoning deadline, we would propose that the treatment portion of the system be operated to handle the waste stream. In lieu of using the drainfield as final disposal, we would continue with the pump and haul arrangement. However, treated liquid would be pumped from the final storage tank in the new system. In this arrangement, we would request that the system be considered operational (or provisionally operational) and be considered to meet the requirements of the zoning.

Thank you for your assistance with this situation. If you have any questions or concerns, please feel free to contact me at 919-859-0669.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kevin D. Davidson', with a long horizontal stroke extending to the right.

Kevin D. Davidson, P.E.  
Sr. Project Engineer