

# HAL OWEN & ASSOCIATES, INC.

SOIL & ENVIRONMENTAL SCIENTISTS

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3 June, 2009

Mr. Calvin Dickenson  
Town of Erwin  
P.O. Box 459  
Erwin, NC 28339

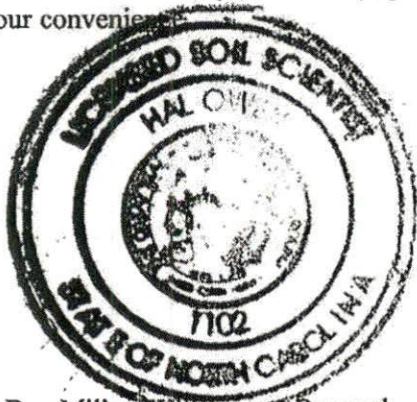
Reference: Soil Investigation  
Erwin Municipal Park Property

Dear Mr. Dickenson,

A soil investigation has been conducted for a portion of the above referenced property to determine the ability of a designated area to support a subsurface sewage waste disposal system and repair area for a proposed concession stand and bathroom facility. It is my understanding that the facility will generate an estimated effluent flow of 240 gallons per day. All soil ratings and determinations were made in accordance with "Laws and Rules for Sewage Treatment and Disposal Systems, 15A NCAC 18A .1900".

The investigated area was observed to be underlain by soils rated as provisionally suitable for subsurface sewage waste disposal due to sandy clay loam textured subsoil layers (see attached map). These provisionally suitable soils appear adequate to support long term acceptance rates of 0.4 to 0.5 gal/day/sqft. It appears that the soils in this area are adequate to support a conventional septic system and repair area for the proposed facility. It is likely that the effluent can gravity flow from the septic tank (located near the bathroom) to the drainfield. A minimum of 1/8 inch of fall per foot is required for the pipe between the tank and the drainfield. This was not field verified but visually looks to have adequate fall. Actual measurements or use of known points of elevation could be used to ensure that gravity flow can be utilized.

I appreciate the opportunity to provide this service and hope to be allowed to assist you again in the future. If you have any questions or need additional information, please contact me at your convenience.



Sincerely,

A handwritten signature in black ink that reads "Hal Owen".

Hal Owen  
Licensed Soil Scientist

CC: Dan Miller, Withers and Ravenel

