William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources

Alan W. Klimek, P. E. Director
Division of Water Quality
Coleen H. Sullins, Deputy Director
Division of Water Quality

GROUNDWATER SECTION
July 29, 2003

Paul Volk
130 Morgan Bluff Rd
Mooresville, North Carolina 28117

RE: Variance Request to Rule 15A NCAC 2C.0107(a) (2)(N)- separation distance between a well and a surface water body which acts as a source of groundwater recharge.
Paul Volk Well
130 Morgan Bluff Rd.
Mooresville, Iredell County, North Carolina

Dear Mr. Volk:

On July 24, 2003, the Mooresville Regional Office received your written request for a variance to Rule 15A NCAC 2C.0107(a)(2)(N). This rule requires a 50-foot separation distance between a well and a surface water body such as a lake. The variance request is for the construction of a water supply well for your residence at 130 Morgan Bluff Rd. Mooresville.

In your request, you indicate that the only suitable location for the well is 25 feet from the lake. Based upon the information that you have submitted, a variance to the above cited rule is granted. The variance will be effective from the date issued until January 28, 2004. Since the well will not meet the regulatory requirements, the following minimum additional construction requirements will be necessary to mitigate any potential problems that could affect public health and/or the well's effective operation:

1. Galvanized steel casing shall be used.

2. The casing shall extend into consolidated bedrock in accordance with the following table:

Depth to Consolidated Bedrock	Minimum Depth of Casing
Less than 50 feet	15 feet into bedrock
50 to 100 feet	10 feet into bedrock
More than 100 feet	5 feet into bedrock

3. The entire length of the casing shall be grouted. A drill bit that is at least 1/3 greater than the outside diameter of the casing shall be used to drill the cased portion of the well. Grout should be installed using the pressure method. The installation of grout using a tremmie pipe is acceptable if the annular space to be grouted is free of obstructions;

4. The well shall be located in the area indicated on your map (attached);