Michael F. Easley, Governor
William G. Ross Jr., Secretary
North Carolina Department of Environment and Natural Resources
Alan W. Klimek, P.E. Director
Division of Water Quality

AQUIFER PROTECTION SECTION
July 1, 2005

Anson Coffey
738 Isle Pine Road
Mooresville, North Carolina 28117

RE: Variance Request to Well Construction Rules NCAC 2C.0107.
738 Isle Pine Road
Mooresville, Iredell County, North Carolina

Dear Mr. Coffey,

Staff from the Mooresville Regional Office conducted a site visit June 30, 2005, and found the need 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 738 Isle Pine Road Mooresville, Iredell County, North Carolina.

From the site visit the only suitable location for the well is 40 feet from the lake. Based upon the information that has been reviewed, a variance to the above cited rule is granted. The variance will be effective from the date issued until December 30, 2005. 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 with drive shoe shall be used, or PVC casing may be used if fitted with appropriate galvanized steel shoe.

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, if not, then a well liner with packer must be installed 10 feet below the casing and fully grouted.

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

5. The well driller shall be certified by the North Carolina Well Contractor Certification Commission as required by General Statutes 87-98.4, Title 15A NCAC 27.0101 and .0110.

6. Notification shall be given to Kevin Bubak at the letterhead address or by phone at 704/235-2184 at least 24 hours prior to the start of well construction.

7. A water sample shall be collected and tested for total and fecal coliform bacteria after the well is completed. The results shall be submitted to the Mooresville Regional Office, Aquifer Protection Section within 30 days of well completion.

It is my finding that the factors specified above are sufficient to satisfy the conditions for approval of a variance as defined in 15A NCAC 2C.0118. A copy of this variance should be attached to the required Well Construction Record (GW-1).

The granting of this variance is for the location of the well only, and in no way relieves the owner or agent from other requirements of the North Carolina Well Construction Standards, or any other applicable law, rule or regulation that may be regulated by other agencies. If you are dissatisfied with this decision, you may commence a contested case by filing a petition under G.S. 150-23 within sixty (60) days after receipt of the decision.

If you have any questions regarding this variance, please contact Kevin Bubak at 704/235-2184.

Sincerely,

Andrew H. Pitner, P.G.
Regional Supervisor
Mooresville Regional Office

Cc: Mid South Well Company Inc. 859 Sloans Mill Road Olin NC 28660
Aquifer Protection Section - Central File
Gary Mcneely - Iredell Co. Environmental Health Mooresville