



North Carolina Department of Environment and Natural Resources

Michael F. Easley, Governor

William G. Ross Jr., Secretary

NOTICE OF INSPECTION

DIVISION OF LAND RESOURCES
LAND QUALITY SECTION

January 27, 2005

Mr. Ervin Brewbaker
Aero Plantation Association, Inc.
1025 Woods Loop
Waxhaw, North Carolina 28173

RE: Aero Planation Lake Dam #1-Upper
Inventory Number: Union-002
Union County, N.C.

Dear Mr. Brewbaker:

The "Dam Safety Law of 1967," as amended, provides for the certification and inspection of dams in the interest of public health, safety, and welfare, in order to reduce the risk of failure of such dams; to prevent injuries to persons, damage to property; and to insure the maintenance of stream flows.

Our records indicate that you are responsible for the referenced dam, which is located off Twelve Mile Creek Road, and was inspected on December 8, 2005, by personnel of the Land Quality Section. This inspection revealed the conditions outlined below:

1. The groundcover on the dam is not sufficient to prevent erosion. Several bare areas were noted along the upstream slope, shoulders and emergency spillway during this inspection. A good grass cover must be established on the entire dam.

During this inspection we also investigated the potential for property damage and loss of life in the event that your dam fails. This investigation determined that failure of your dam could result in severe property damage or possible loss of life. Therefore, we are listing your dam in the "High Hazard Potential" category.

610 East Center Avenue, Suite 301, Mooresville, North Carolina 28115
Phone: 704-663-1699 \ FAX: 704-663-6040 \ Internet: www.enr.state.nc.us

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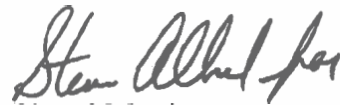
The dam is classified as "High Hazard Potential" due to the downstream locations of Aero Plantation Lower Dam and Newtown Road, both of which could be impacted by a sudden failure of the dam.

Also be advised, that any excavations in this dam or major repair work to this dam must be approved by this Office before any work is done. Also, note that this dam may not be breached, meaning the dam may not be drained by cutting a notch in the dam, without prior engineered breach plans being submitted to and approved by this Department.

Please be advised that though we make every reasonable effort to determine the safety of your dam, our resources limit us to surficial inspection. There is no certainty regarding the internal stability of the dam. Dams, and especially their spillways and conduits, deteriorate with age. Therefore, you are advised to keep a close watch on your dam and to notify us if you detect any changes, especially cracks, ground movements or changes in seepage rate or color.

Your cooperation and consideration in maintaining a safe dam is appreciated. If ownership of the dam has changed, please notify us so that we can update our records. Should you have any questions concerning our inspection, please contact me at (704) 663-1699.

Sincerely,



Cheryl Martineau
Environmental Technician

CM/ae



North Carolina Department of Environment and Natural Resources

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DIVISION OF LAND RESOURCES
LAND QUALITY SECTION

January 27, 2006

Mr. Irvin Brewbaker
1025 Woods Loop
Waxhaw, North Carolina 28173

RE: Aero Plantation Lake Dam #2-Lower
Inventory Number: Union-003
Union County, N.C.

Dear Mr. Brewbaker:

The "Dam Safety Law of 1967," as amended, provides for the certification and inspection of dams in the interest of public health, safety, and welfare, in order to reduce the risk of failure of such dams; to prevent injuries to persons, damage to property; and to insure the maintenance of stream flows.

Our records indicate that you are responsible for the referenced dam, which is located off Twelve Mile Creek Road, and was inspected on December 8, 2005, by personnel of the Land Quality Section. This inspection revealed the conditions outlined below:

1. Two wet areas were observed along the toe contact of the dam. One area is approximately 50 ft X 20 ft and is located to the right of the principal spillway. The other area is approximately 10 ft X 10 ft and is located to the left of the principal spillway. The wetness is possibly a result of seepage through the dam: it is requested that this area be monitored regularly for any changes.
2. The primary spillway riser pipe appeared to be partially obstructed by pine needles and driftwood. We recommend that the riser pipe be cleared of this debris, as needed, to ensure proper functioning of the primary spillway.

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3. The outlet end of the primary spillway barrel pipe through the dam and the outlet end of the 12-inch corrugated metal pipe are deteriorated from rust. Deterioration of these pipes can cause failure of the dam due to erosion through deteriorated areas of the pipes within the dam. An engineer should investigate the extent of the deterioration further. Be advised that repairs to either of the pipes require approval from this Department before any work can be done.
4. A large hole was discovered approximately 20 feet from the right bollards and about ½ way down the downstream slope. We marked the spot with a tree branch that had a ribbon attached to it. An engineer should investigate this hole further.

During this inspection we also investigated the potential for property damage and loss of life in the event that your dam fails. This investigation determined that failure of your dam could result in severe property damage or possible loss of life. Therefore, we are listing your dam in the "High Hazard Potential" category.

The dam is classified as "High Hazard Potential" due to the downstream location of New Town Road, which could be impacted by a sudden failure of the dam.

Also be advised, that any excavations in this dam or major repair work to this dam must be approved by this Office before any work is done. Also, note that this dam may not be breached, meaning the dam may not be drained by cutting a notch in the dam, without prior engineered breach plans being submitted to and approved by this Department.

Please be advised that though we make every reasonable effort to determine the safety of your dam, our resources limit us to surficial inspection. There is no certainty regarding the internal stability of the dam. Dams, and especially their spillways and conduits, deteriorate with age. Therefore, you are advised to keep a close watch on your dam and to notify us if you detect any changes, especially cracks, ground movements or changes in seepage rate or color.

Your cooperation and consideration in maintaining a safe dam is appreciated. If ownership of the dam has changed, please notify us so that we can update our records. Should you have any questions concerning our inspection, please contact Cheryl Martineau or me at (704) 663-1699.

Sincerely,



Clinton O. Cook, PE
Assistant Regional Engineer

CM/ae