



South Carolina Department of Health and Environmental Control

# APPLICATION TO CONSTRUCT OR ALTER A DAM

## PART A. OWNER & APPLICATION TYPE

Name of Owner of Subject Dam: Woodcreek Homeowner's Association

Address: [REDACTED] [REDACTED] [REDACTED] [REDACTED]  
(Street or P.O. Box) (City) (State) (Zip Code)

County of Dam's Location: 34.12097068, -80.81184 Owner's Telephone No.: \_\_\_\_\_

Tax Map Number of Property on Which Dam Will Be Built: R28909-01-05

Application Is Submitted For a Permit to:

- Construct a new dam
- Remove existing dam
- Repair existing dam
- Enlarge existing dam

## PART B. GENERAL INFORMATION

The following basic information is pertinent to the plans and specifications and should be assembled by or with the assistance of a qualified engineer.

1. Structural height of dam: 20.00 feet  
(Measured from low point on original ground profile to top of dam)
2. Surface area of impoundment at normal pool level: 67.00 acres
3. Volume of water impounded at normal pool level: 1,338.00 acre feet
4. Watershed area: 2,500.00 acres
5. Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils.):

The existing conditions of the site consist of a mixture of wooded and residential lots with approximately 25% impervious for the entire area. The site topography slopes are generally moderate to flat with an overall basin of 2,500 acres and a general land slope of approximately 2-6% in flatter areas with some steeper slopes of 6-15% nearer Spears Creek. The soils were mainly Hydrological Group A and C and Lakeland and Kershaw Sands and Pelion Loam.

6. Is there an existing water impoundment on the same stream? Yes  No   
If yes, distance: 0.97 miles, Upstream  or Downstream  (check appropriate box).

7. Name of stream: Spears Creek

8. Describe the downstream area of potential damage in case of failure of the dam.  
Include:

- a. Number and type of buildings;
- b. If homes are included, total number of people;
- c. Number and description of public utilities and roads;
- d. Distance downstream from proposed dam location to applicant's property line;

(description of downstream area of potential damage continued)

There are no housing downstream before the next impoundment which is approximately one mile. Area is wooded.

9. Stream flow is: Intermittent  Permanent  If permanent, estimated flow is 977.00 cfs.

10. Give a brief statement pertaining to probable future development of the area downstream from the dam that would be affected by its failure.

This area is fairly rural - most of the downstream area to the next impoundment is wooded owned by Woodcreek Farms. Likely it is high that this would one day be single family homes.

11. Impoundment presently is or will be used for: Recreation

12. Describe location of site or proposed site.

Nearest Community: Elgin County: Richland

Give distance and direction from nearest town, city, road intersection, or street intersection.

4,133 feet to Spears Creek Church Road and I-20 Interchange.

13. Attach a U. S. Geological Survey map or aerial photograph showing the exact location of dam, location of roads, utilities, access to site, outline of reservoir, watershed and property lines. Property lines in relation to proposed dam may be shown on a sketch.

14. Was the above information obtained with the assistance of a registered professional engineer legally qualified in the state? Yes  No  If yes, give:

Name: David K. Brandes. PE

Address: 1330 Lady Street Columbia SC Suite 205 29201

Telephone: (803) 315-9822 SC Registration No.: 16182

I hereby certify that the information contained in this application is true and correct to the best of my knowledge. I fully understand that any willful misrepresentation of facts may cause denial or revocation of the subject permit, and further may result in criminal prosecution.

Owner's Name Printed: Dr. Guy Castles

Owner's Signature: \_\_\_\_\_ Date: (MM/DD/YYYY) \_\_\_\_\_

Send completed application with map, plans, specifications, and design calculations to the South Carolina Department of Health and Environmental Control, Dams and Reservoirs Safety, at the address below:

**DAMS AND RESERVOIRS SAFETY  
SC DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL  
2600 BULL STREET  
COLUMBIA, SOUTH CAROLINA 29201**

**SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL**

**INSTRUCTIONS FOR COMPLETING  
Application to Construct or Alter a Dam - DHEC 2602 (6/94)**

**PURPOSE:**

To apply to construct or alter a dam regulated under the S. C. Dams and Reservoirs Safety Act.

**EXPLANATION AND DEFINITION:**

**Item by Item Instructions for Part A.**

*Name of owner of subject dam:* Self-explanatory.

*Address of owner:* Self-explanatory.

*County:* County in which dam is located.

*Telephone:* Telephone number of owner, include area code.

*Tax Map Number of Property on Which Dam Will Be Built:* Give County Tax Map Number for Property.

*Application is submitted for a permit to:* Check applicable box.

**Item by Item Instructions for Part B.**

*1. Structural height of dam:* Self-explanatory.

*2. Surface area of impoundment:* Self-explanatory.

*3. Volume of water:* Self-explanatory.

*4. Watershed area:* Area that drains into reservoir, in acres.

*5. Brief description of watershed characteristics:* Follow instructions on form.

*6. Existing water impoundment on the same stream:* Self-explanatory.

*7. Name of stream:* Name of creek, river, etc., on which dam is located (see USGS quad sheets for official name). If not named, put "unnamed".

*8. Area of potential damage:* Follow instructions on form.

*9. Stream flow:* Self-explanatory.

*10. Brief statement pertaining to probable future development:* Self-explanatory.

*11. Impoundment presently is or will be used for:* Purpose that reservoir/dam serves. For example: recreation, agriculture, wildlife management, etc.

*12. Describe location of site or proposed site:* Follow instructions on form.

*13. Attach a U. S. Geological Survey map:* Follow instructions on form.

*Remainder of form is self-explanatory.*