



APPLICATION TO CONSTRUCT OR ALTER A DAM

PART A. OWNER & APPLICATION TYPE

Name of Owner of Subject Dam: SC Department of Parks, Recreation & Tourism

Address: 1205 Pendleton Street Columbia SC 29201
 (Street or P.O. Box) (City) (State) (Zip Code)

County of Dam's Location: Barnwell *Owner's Telephone No.:* (803) 734-0258

Tax Map Number of Property on Which Dam Will Be Built: 106-00-00-004

Application Is Submitted For a Permit to:

- | | |
|---|---|
| <input type="checkbox"/> Construct a new dam | <input type="checkbox"/> Remove existing dam |
| <input checked="" type="checkbox"/> Repair existing dam | <input type="checkbox"/> 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:* 10.00 feet
 (Measured from low point on original ground profile to top of dam)
2. *Surface area of impoundment at normal pool level:* 10.00 acres
3. *Volume of water impounded at normal pool level:* 75.00 acre feet
4. *Watershed area:* 2,300.00 acres
5. *Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils.):*

Watershed is mostly wooded (State Park) and rural development (residential/farm). Land slope is gently sloping with some low lying wetlands. Predominant soil types are Barnwell Loamy Sand and Rembert Loam.

6. *Is there an existing water impoundment on the same stream?* Yes No
 If yes, distance: 0.01 miles, Upstream or Downstream. (check appropriate box).
7. *Name of stream:* Toby 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)

Barnwell State Park Lower Dam, State Park Road, and SC Highway 3, a two lane paved roadway with overhead power and phone lines lie in the downstream area of potential damage. From the spillway to the park property line along the direction of flow is approximately 0.65 miles.

9. Stream flow is: Intermittent Permanent If permanent, estimated flow is 5.00 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.

None, Barnwell State Park Lower Dam is immediately downstream

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

12. Describe location of site or proposed site.

Nearest Community: Blackville County: Barnwell

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

2.7 miles southwest of the intersection of SC Highway 3 and US Highway 78

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:

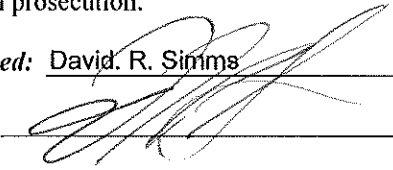
Name: David R. Simms

Address: 1205 Pendleton Street Columbia, SC 29201

Telephone: (803) 734-0258 SC Registration No.: 13278

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: David R. Simms

Owner's Signature:  Date: (MM/DD/YYYY) 09/12/2016

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**