



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: Gregory Brown & Kerry White

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

County of Dam's Location: Richland Owner's Telephone No.: [redacted]

Tax Map Number of Property on Which Dam Will Be Built: R27400-02-09

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: 7.50 feet  
(Measured from low point on original ground profile to top of dam)
2. Surface area of impoundment at normal pool level: 31.30 acres
3. Volume of water impounded at normal pool level: 377.30 acre feet
4. Watershed area: 19,173.00 acres
5. Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils.):

The watershed of Clarkson Pond is a very narrow but long shape. It can be tracked along Cedar Creek all the way to the north, extending to the Weston Lake basin. The total watershed area is 19,173 acres or 29.96 square miles. Roughly 80% of the watershed area is undeveloped. The undeveloped land use of the watershed consists of woods and open spaces, and the developed area are mainly McEntire Joint National Guard Base and some small residential areas.

6. Is there an existing water impoundment on the same stream? Yes  No   
If yes, distance: 2.60 miles, Upstream  or Downstream  (check appropriate box).

7. Name of stream: Cedar 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)

The Clarkson pond is the part of Cedar Creek watershed and water discharge from this pond and flow approximately 14,000 ft into next downstream pond, Duffies Pond. Between these two ponds, Clarkson Road, Bluff Road, and electric power transmission lines cross the Cedar Creek. There are few residences adjacent to Cedar Creek between these two ponds but per the latest aerial imagery all appear to be located a safe elevation above the water surface.

9. Stream flow is: Intermittent  Permanent  If permanent, estimated flow is 60.00 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.

The major downstream area between Clarkson pond and Duffies Pond is undeveloped and wooded area. Agriculture or individual residences house may be developed nearby.

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

12. Describe location of site or proposed site.

Nearest Community: Hopkins County: Richland

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

From Hopkin and Clarkson Road to east on Clarkson Rd for 3.8 miles, turn left on Meeting House Rd and go 0.3 miles. The pond is located approximately 400 ft east side of Meeting House Rd.

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:

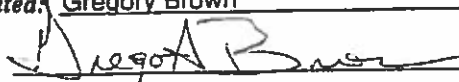
Name: Gerald A. Lee, P.E.

Address: Chao and Associates, Inc. : 7 Clusters, Court, Columbia, SC 29210

Telephone: (803) 772-8420 SC Registration No.: 21629

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: Gregory Brown

Owner's Signature:  Date: (MM/DD/YYYY) 07/08/2016

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