



South Carolina Department of Health and Environmental Control

D 3557
Forest Lake Dam
Permit # 21-0003

APPLICATION TO CONSTRUCT OR ALTER A DAM

PART A. OWNER & APPLICATION TYPE

Name of Owner of Subject Dam: FOREST LAKE HOA [REDACTED]

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

County of Dam's Location: FLORENCE Owner's Telephone No.: [REDACTED]

Tax Map Number of Property on Which Dam Will Be Built: [REDACTED]

Application Is Submitted For a Permit to: [REDACTED]

- 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.

DAM # D-3557

1. Structural height of dam: 17.0 feet
(Measured from low point on original ground profile to top of dam)
2. Surface area of impoundment at normal pool level: ± 172 acres
3. Volume of water impounded at normal pool level: 677 acre feet
4. Watershed area: 12,700 acres
5. Give a brief description of the watershed characteristics (include ground cover, slope, shape & soils.):

PREDOMINANTLY RESIDENTIAL LOTS IN SUBDIVISIONS.
APPROXIMATELY 30% IS AGRICULTURAL FIELDS.

6. Is there an existing water impoundment on the same stream? Yes No OAKDALE LAKE
If yes, distance: 1.4 TO HEAD OF LAKE miles, Upstream or Downstream (check appropriate box).
TO SPILLWAY

7. Name of stream: MIDDLE SWAMP

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)

MIDDLE SWAMP IS A WIDE WOODED FLAT BASIN. WIDTH VARIES FROM 650 TO 1100 FEET WIDE (WOODS). NEAREST CROSSING IS BRIDGE AT SOUTH IRBY ST 3.9 MILES DOWNSTREAM OF DAM.

Mean flow is: Interim Permanent If permanent, estimated flow is 200-400 cfs. @ SPILL WAY PIPES

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

BANK OF SWAMP ON BOTH SIDES CONTAINS RESIDENTIAL LOTS (1/2 TO 1 ACRE) AND UNDEVELOPED WOODS. MIDDLE SWAMP IS IMPROVED FLOOD BENE. NO FUTURE DEVELOPMENT EXPECTED.

11. Impoundment presently is or will be used for: RECREATION (FISHING/BOATING)

12. Describe location of site or proposed site.

Nearest Community: FLORENCE County: FLORENCE

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

SOUTH END OF DAM = 310' NORTH OF END OF WEST DRAKESHORE DRIVE. NORTH END OF DAM = 400' SOUTH OF WATEREDGE LANE.

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: MARTIN FOX, PE / ALIGNED ENGINEERING, LLC
Address: 273 WEST EVANS STREET
Telephone: 843/713-1244 SC Registration No.: 20872

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. FOREST LAKE HOMEOWNERS ASSOCIATION

Owner's Name Printed: Frank McIntyre

Owner's Signature: Frank McIntyre Date: (MM/DD/YYYY) 9/23/16

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