NEW YORK STATE Department of Environmental Conservation

APPLICATION FOR PERMIT

FOR THE BREACH/LOWERING OF A DAM OR OTHER IMPOUNDMENT STRUCTURE

Supplement D-1.B

Please read all instructions on the following page. Please TYPE or PRINT clearly in ink. Attach additional information as needed.

FOR DEPARTMENT USE ONLY
APPLICATION NO.
WATERSHED

PROJECT DESCRIPTION

1. LOCATION ON U.S. GEOLOGICAL SURVEY MAP — County | Latitude | Longitude

2. EXISTING USE FOR IMPOUNDED WATER

3. STATE THE HEIGHT ABOVE SPILLCREST OF THE LOWEST PART OF ANY IMMEDIATE UPSTREAM ADJOINING PROPERTIES _____ Feet

4. IS THIS POND OR LAKE PART OF A PUBLIC WATER SUPPLY ☐ Yes ☐ No
If not, where is nearest downstream public water supply intake?

5. State Dam ID#

6. DRAINAGE AREA (ac or sq-mi)

7. HEIGHT OF DAM ABOVE STREAM BED? _____ Feet

8. THE DRAINAGE AREA IS COMPOSED OF: (Total = 100%)
_____ % Forest _____ % Cropland _____ % Pasture _____ % Other _____ % Swamp _____ % Suburban Lands _____ % Urban Lands

9. TYPE OF SPILLWAY
☐ Service Spillway - Auxiliary Spillway Combination ☐ Pipe Riser ONLY
☐ Single Spillway ☐ Other _____

10a. EXISTING CLASS OF HAZARD (As described in 6NYCRR Part 673)
☐ Class "A" ☐ Class "B" ☐ Class "C"

10b. PROPOSED CLASS OF HAZARD (As described in 6NYCRR Part 673)
☐ Class "D" ☐ Other _____

NOTE: Provide descriptive information on character of downstream area.

11. EXISTING SPILLWAY INFLOW DESIGN FLOOD (Refer to Guidelines 5.3)
Frequency _____ Flood Peak _____ cfs Runoff Volume _____ in.

12. THE SINGLE SPILLWAY OR AUXILIARY SPILLWAY IS COMPOSED OF:
☐ Vegetated Earth ☐ Concrete ☐ Timber ☐ Rock-filled Crib ☐ Masonry ☐ Other

13. THE BREACH LOCATION:
☐ Earthen Section ☐ Service/Auxiliary Spillway ☐ Full Breach ☐ Other _____

14. IDENTIFY WHICH DAM ABUTMENTS WILL BE REMOVED? (Check all that apply) ☐ Left Abutment ☐ Right Abutment ☐ Neither

15. ESTIMATED AMOUNT OF SEDIMENT VOLUME UPSTREAM OF DAM? _____ Cu.Yds

16. WILL THE DAM BREACH BE REMOVED TO THE NATIVE/NATURAL STREAM BED ELEVATION? ☐ Yes ☐ No

17. IS THE DAM A RUN OF RIVER DAM? ☐ Yes ☐ No

18. IS THE DAM BREACH CONSTRUCTION PREFORMED IN THE DRY? ☐ Yes ☐ No

19. BREACHED AREA CAPACITY DATA (Partial breach only)
Answer 1, 2 and 3, OR 1, 2, 4, 5

	ELEVATION, Referred to Assumed Benchmark	SURFACE AREA	VOLUME STORED
1. Top of Dam	_____ Feet	_____ Acres	_____ Acre-Feet
2. Design High Water	_____ Feet	_____ Acres	_____ Acre-Feet
3. Single Spillway Crest	_____ Feet	_____ Acres	_____ Acre-Feet
4. Auxiliary Spillway Crest	_____ Feet	_____ Acres	_____ Acre-Feet
5. Service Spillway Crest	_____ Feet	_____ Acres	_____ Acre-Feet

20a. DOES THIS DAM HAVE A LOW-LEVEL OUTLET (LLO)? ☐ Yes ☐ No

20b. WILL THE LLO BE REMOVED/GROUTED IN PLACE? ☐ Yes ☐ No

21. BREACH CONSIDERATIONS:

	Yes	No
a. Has provision been made to size the breach to pass the 100-year storm event while resulting in no more than a one-foot increase in water surface elevation upstream of the dam. **If no, please state the limiting factors in your report.**	☐	☐
b. Is this a partial breach?	☐	☐

22. IF THE ANSWER TO 21b WAS YES, HAS PROVISION BEEN MADE TO ENSURE:

	Yes	No
a. The side slopes of the breach section are adequately sloped (minimum 1.5H:1V, typically 3H:1V),	☐	☐
b. Is the normal flow channel and side slopes of the breach durable?	☐	☐

23. SEDIMENT DATA:
State how the character of the sediment was determined and compares to natural types of soil materials, hardness, perviousness, water bearing, effect of exposure to air and water, uniformity, etc.

Have plans been made to store or move any of the removed sediment?

Has the sampling requirements been reviewed with DEC?

24. DESIGN ENGINEER Name of agency or individual	P.E. License No. of Individual	Date	25. CONSTRUCTION ENGINEER Name of agency or individual	P.E. License No. of Individual
Address			Address	
Title	Telephone No.		Title	Telephone No.

Revision 02/01/2023

Reset

INSTRUCTIONS FOR INFORMATION TO ACCOMPANY SUPPLEMENT D-1.B (DAM/IMPOUNDMENT BREACH APPLICATION)

1. Five (5) copies of all documents must be filed, including detailed construction plans and specifications.

2. The plans and specifications submitted with the application must include the following information:
NOTE: The following is required to satisfy the requirement in 6NYCRR Part 608, section 608.6(a)(3)(iii) for construction plans and project specifications that are sufficiently detailed for department evaluation of the safety aspects of the dam breach.

a. A plan showing the existing dam and dam appurtenances, horizontal and vertical controls, the normal water level in the lake or pond, the limits of the owner's property, the location of the breach section., proposed and topographic contours at the dam and around the anticipated reservoir area, including 2-foot contours to 6 feet above high water level.

b. A profile along the dam axis from abutment to abutment and a cross section diagram of the dam at its maximum height, showing original, existing, and proposed conditions.

c. A profile along the center line and a cross section diagram, or diagrams, of the breach area. If a partial breach include spillways, LLO, and appurtenant works in diagrams.

d. Specifications for the materials and for the methods of construction.

e. A description of construction inspection activities, to be performed by the applicant's engineer, to ensure that work is performed in conformance with the approved design.

f. Any additional drawings needed to clearly show all details of the proposed project.

h. Samples of foundation, embankment and construction materials need not be furnished specifically requested by the Department.

3. The design, preparation of plans, estimates and specifications, and the supervision of the breach of all the structures, herein applied for, shall be done by a licensed professional engineer, or, in the case of farm ponds, by an engineer or conservationist employed by a governmental agency cooperating with a soil conservation district.

4. A technical guidance document "Guidelines for Design of Dams" is available upon request from the DEC Regional Permit Administrator or through the DEC website at https://dec.ny.gov. Click on Environmental Protection, then Water, then Flood Protection and finally Dam Safety. This document outlines hydrologic and other criteria which should be utilized by the design engineer.

5. **NO WORK** (including site preparation) for construction of proposed breach **SHALL BE STARTED UNTIL A PERMIT** has been issued by the New York State Department of Environmental Conservation.